# TRANSPORTATION IMPACT ASSESSMENT FOR THE WOODSPRING SUITES DEVELOPMENT AP 323, Lot 8 WARWICK, RHODE ISLAND

SUBMITTED TO:

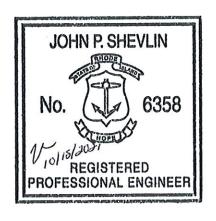
MR. AARON PACKARD

VICE PRESIDENT & DIRECTOR OF DEVELOPEMENT

GOLD COAST PREMIER PROPERTIES

16115 SW 117<sup>TH</sup> AVENUE, UNIT A7

MIAMI, FLORIDA 33177



SUBMITTED BY:
PARE CORPORATION
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865

OCTOBER 2021



# **TABLE OF CONTENTS**

<u>DESCRIPTION</u>	<b>PAGE</b>
Introduction	1
Project Description	1
Existing Conditions	4
Existing Traffic Volumes	6
Public Transportation	6
Pedestrian & Bicycle Facilities	6
Future Conditions	8
Future (2026) No-Build Traffic Volumes	8
Project Trip Generation	10
Project Trip Distribution	10
Future (2026) Build Traffic Volumes	12
Traffic Capacity Analysis	13
Safety Analysis	16
Conclusions & Recommendations	18



$\mathcal{U}$	1
Tables	
1	0
	0
Table 3: LOS Criteria for Signalized & Unsignalized Intersections 1	3
Table 4: Intersection Capacity Analysis Results – Signalized Intersections 1 (On-Ramp)	4
Table 5: Intersection Capacity Analysis Results – Signalized Intersections (Off-Ramp)	4
Table 6: Intersection Capacity Analysis Results – Unsignalized Intersections 1 (Driveway)	4
` ',	6
· ·	6
	7
APPENDICES	
Appendix A RIDOT Traffic Signal Timing Plans	
Appendix B Traffic Count Data	
Appendix C Background Growth Data	
Appendix D Trip Generation Calculations	
Appendix E Intersection Capacity Analysis Results	
Appendix F Speed Study Results	



## **INTRODUCTION**

Pare Corporation (Pare) has conducted a Transportation Impact Assessment (TIA) to determine the anticipated impacts to the surrounding roadway network associated with the proposed construction of WoodSpring Suites, a hotel development to be located on AP323, Lot 8, 2245 Post Road in Warwick, Rhode Island. The development will be located south of the intersection of Post Road (US-1) and T.F. Green Airport Connector Off-Ramp. The proposed hotel development will consist of 4 stories containing 122 rooms.

The study includes an assessment of the existing conditions of the study area including an inventory of roadway and intersection geometrics, public transportation services, collection of peak period traffic counts, and an analysis of the crash history of the study area.

Additionally, future traffic conditions with and without the proposed development were projected and analyzed. The future (2026) conditions analyzed were projected five years from the existing (2021) conditions. Weekday morning and evening peak periods for Existing (2021), Future (2026) No-Build, and Future (2026) Build conditions were analyzed.

Finally, the study evaluates the results of the Future (2026) Build condition analysis to determine the impact of the proposed development on the adjacent transportation network and provides recommendations as necessary.

#### **Project Description**

The proposed development will consist of 122 rooms. The proposed site will be located on the west side of Post Road (US-1) just south of T.F. Green Airport Connector Off-Ramp at the site of a former Airport Valet Parking Lot. Access to/from the site will be provided with two full access driveways on Post Road (US-1). The proposed site will provide a total of 122 parking spaces (5 Handicap Accessible).

A locus map of the site is provided in Figure 1 while the project site plan is provided in Figure 2.





= STUDY INTERSECTIONS



PARE CORPORATION ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100 PROJECT NO. 21175.00

Figure No. 1 Wood Spring Suites Hotel Development DATE: OCTOBER 2021

Traffic Impact Assessment

WARWICK, RHODE ISLAND



DiPrete Engineering

Site Layout Plan
2245 Post Road - Hotel Permitting
Manager Plant Blant B



#### **General Notes:**

- THE SITE IS LOCATED ON THE CITY OF WARWICK, RHODE ISLAND ASSESSOR'S PLAT 323 LOT 8.
- THE SITE IS APPROXIMATELY 2.4± ACRES AND IS ZONED GB.

THE OWNER OF AP 323 LOT 8 IS:

- THE SITE IS TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.
- THERE ARE NO WETLANDS OR WATERCOURSES WITHIN 200' OF PROPERTY LINE
- BACKGROUND IMAGE FROM NEARMAP, DATE OF PHOTOGRAPHY: 03-21-2020.

CURRENT ZONING: GB - NON RESIDENTIAL USES

MANIAM LOT AGE AND LOT HIDDE CO.CO. THE RESOURTIAL USES AND LOT HIDDE CO.CO. THE RESOURT AGE AND LOT HIDDE CO.CO. THE RESOURT AGE AND CO.CO. THE RESOURT AGE AND CO.CO. THE RESOURCE CO.CO. THE REPORT AGE AND LOT HIDDE CO.CO. THE RESOURCE CO.CO. THE RESOURCE AGE AND LOT THE RESOURCE CO.CO. THE RESOURCE CO.C. THE R

#### Parking Regulations:

HOTEL 1 SPACE PER BEDROOM BEDROOMS PROPOSED: PARKING CALCULATION: 122 122 SPACES REQUIRED PARKING SPACES: PARKING SPACES PROVIDED: 122 SPACES 122 SPACES (5 ADA)

#### Soil Information:

(REFERENCE: USDA NATURAL RESOURCES CONSERVATION SERVICE)
SOIL NAME DESCRIPTION.

URBAN LAND

#### Proposed Legend



BUILDING SETBACKS ASPHALT PAVEMENT

LANDSCAPE AREA

PARKING COUNT

Existing Legend
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS



MINOR CONTOUR LINE

SOIL LINE AND DESIGNATION

FIGURE 2

## **EXISTING CONDITIONS**

A field inventory of the existing conditions within the study area was conducted in September 2021. The study area is defined as the significant roadways and intersections in the vicinity of the proposed site that may be impacted by the traffic generated by the construction of the proposed development. The study area is described below and shown in Figure 1.

## Post Road (US-1)

Post Road (US-1) is classified as a principal arterial and is owned and maintained by the Rhode Island Department of Transportation (RIDOT). It travels through the study area in a north/south direction and consists of four 12-foot-wide travel lanes with a 2-foot-wide shoulder on the east side of the road and 3-foot shoulder on the west side of the road. The posted speed limit on Post Road (US-1) at the site driveways is 35 mph. Approximately 120 feet north of the project site a bus stop is located on the southbound side of the road. Parking along both sides of Post Road (US-1) is restricted with "NO PARKING ANY TIME" signage.

#### Post Road (US-1) and Aviation Avenue

The intersection of Post Road (US-1) and Aviation Avenue forms a four-legged signalized intersection. Post Road (US-1)) forms the north and south legs of the intersection, a privately owned road (Donald Avenue) forms the west leg of the intersection, and Aviation Avenue forms the east leg. Post Road (US-1) is classified as a principal arterial and is owned and maintained by the Rhode Island Department of Transportation (RIDOT). Aviation Avenue is classified as an urban collector and is owned and maintained by the Rhode Island Department of Transportation (RIDOT).

Post Road (US-1) northbound approach to the intersection consists of a thru lane, a shared thru/right lane and a dedicated left-turn lane. The southbound approach to the intersection consists of a thru lane, a shared thru /right lane and a dedicated left-turn lane. The eastbound approach to the intersection on the privately owned road Donald Avenue consists of a shared left/right/thru lane. The westbound approach to the intersection serves as a one-way entrance to the T.F. Green Airport.

The signal operates under three phases. Phase one serves the protected northbound left-turn and southbound left turn movements. Phase two is for the northbound and southbound movements and Phase 3 is for movements from Donald Avenue.

## Post Road (US-1) and T.F. Green Airport Connector Off-Ramp

The intersection of Post Road (US-1) and T.F. Green Airport Connector Off-Ramp forms a three-legged signalized intersection. Post Road (US-1) forms the north and south legs of the intersection, and the T.F. Green Airport Connector On-Ramp forms the west leg of the intersection. The T.F. Green Connector Off-Ramp is classified as a principal arterial and is owned and maintained by the Rhode Island Department of Transportation (RIDOT).

The Post Road (US-1) northbound approach to the intersection consists of two thru lanes. The southbound approach to the intersection also consists of two thru lanes. The eastbound approach to the intersection, the T.F. Green Airport Connector Off-Ramp, consists of two left turn lanes and one right turn lane. There is a "No Turn on Red" sign on this approach.



## Post Road (US-1) and T.F. Green Airport Connector On-Ramp

The intersection of Post Road (US-1) and T.F. Green Connector On-Ramp forms a three-legged signalized intersection. Post Road (US-1)) forms the north and south legs of the intersection, and the T.F. Green Airport Connector On-Ramp forms the west leg of the intersection. The T.F. Green Airport Connector On-Ramp is classified as a principal arterial and is owned and maintained by the Rhode Island Department of Transportation (RIDOT).

The Post Road (US-1) northbound approach to the intersection consists of two thru lanes and a dedicated northbound left-turn lane. The southbound approach to the intersection consists of two thru lanes, and a channelized right lane that is controlled with a yield sign that provides access to the westbound movement on the T.F. Green Airport Connector.

Th Airport Connector ramp intersections are controlled by RIDOT traffic signal no. 490. The signal at the intersections operates under three phases. Phase one serves the protected northbound left-turn movement to the on-ramp as well as a permissive southbound right turn movement after yielding. Northbound thru movements at both intersections are also allowed. Phase two serves the northbound and southbound thru movements concurrently. Southbound right-turns after yielding to the on-ramp are permissive during this phase. The third phase serves the northbound movements at the on-ramp intersection, all traffic movements from the Connector off-ramp, and the northbound left-turn movement to the on-ramp. Traffic signal plans and the most recent RIDOT traffic signal timing sheet is included in Appendix A.

In general, pavement conditions on Post Road (US-1) are fair. Much of the roadway appears to have been crack-sealed within the last few years.



## **Existing Traffic Volumes**

Existing traffic volume data was collected through turning movement counts (TMCs) at the study intersections. TMCs were performed during the weekday morning (7:00 to 9:00 a.m.) and weekday afternoon (4:00 to 6:00 p.m.) peak periods. These time periods were selected as they represent the peak traffic time periods for the proposed development and typical peak periods for the adjacent roadway network. Traffic patterns within the study area are heavily influenced by work commuters.

The traffic counts used in this study were performed on Tuesday, September 21, 2021. Traffic data was adjusted 10% higher to account for the impact of the Covid-19 pandemic.

The Covid-19 factor developed for each peak period was applied to increase 2021 volumes to prepandemic "normal" levels. The existing (2021) traffic volumes, which have been "normalized" by the application of the Covid-19 factor, are shown in Figure 3. Complete traffic count data is included in Appendix B.

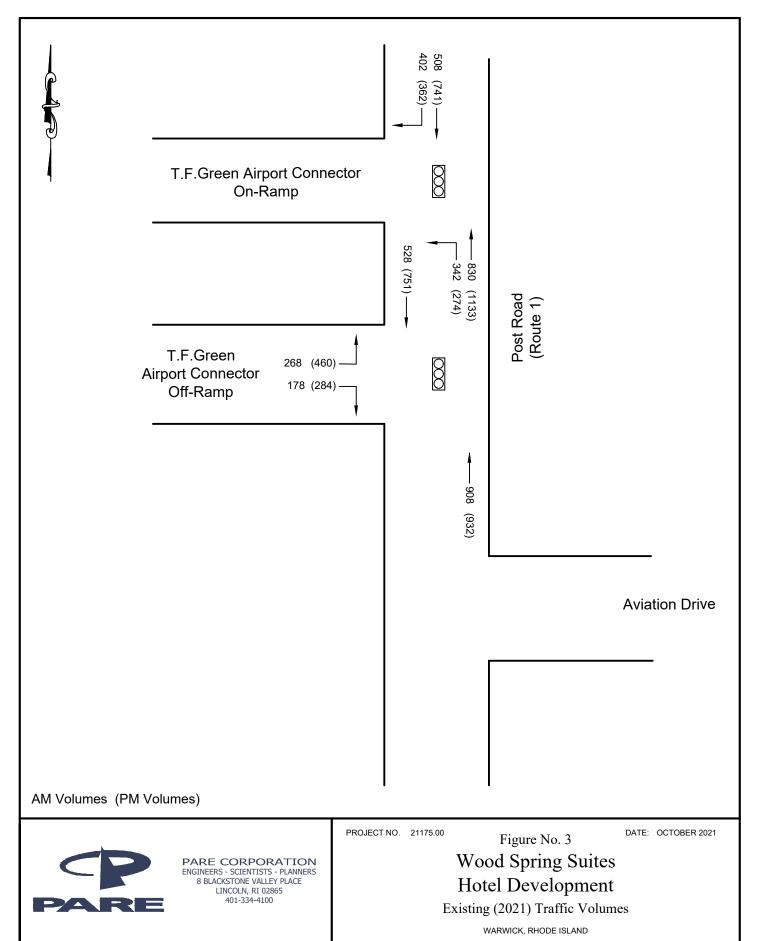
## **Public Transportation**

The study area falls within the service area of the Rhode Island Public Transit Authority (RIPTA). RIPTA Bus Route 14 travels along Post Road (US-1) that could provide service to the proposed development. This RIPTA bus route also provides access to T.F. Green Airport via Post Road (US-1), the T.F. Green Train Station, and the New England Institute of Technology (NEIT).

## Pedestrian & Bicycle Facilities

In general, pedestrian facilities within the study area are present as sidewalks exist along Post Road (US-1). No formal bicycle facilities are located within the study limits. According to RIDOT's "A Guide to Cycling in the Ocean State, 2020", Post Road (US-1) is classified as a "Other Road" which is described as a non-bike lane for bicycle travel.





## **FUTURE CONDITIONS**

Traffic volumes in the study area were projected to the year 2026 to cover a five-year horizon from the existing 2021 condition. Two future (2026) scenarios were analyzed including a Future (2026) No-Build scenario and Future (2026) Build scenario. Under the Future (2026) No-Build scenario, the traffic volumes include existing traffic volumes and new traffic volumes associated with expected background growth and other future development. The Future (2026) scenario includes all traffic volumes under the Future (2026) No-Build scenario and traffic associated with the proposed Project.

#### **Future (2026) No-Build Traffic Volumes**

The Future (2026) No-Build traffic volume scenario includes all existing traffic volumes and the traffic volumes associated with expected background growth. To provide a conservative analysis, the background growth in traffic volumes consists of a general background traffic growth rate consistent with recent traffic volume growth in the area surrounding the study area and any additional traffic projected from additional developments near the study area. This method allows for the inclusion of a general growth rate to account for any unforeseen increases in traffic volumes and accounts for specific known developments expecting to impact the transportation system adjacent to the Project.

#### General Background Traffic Growth

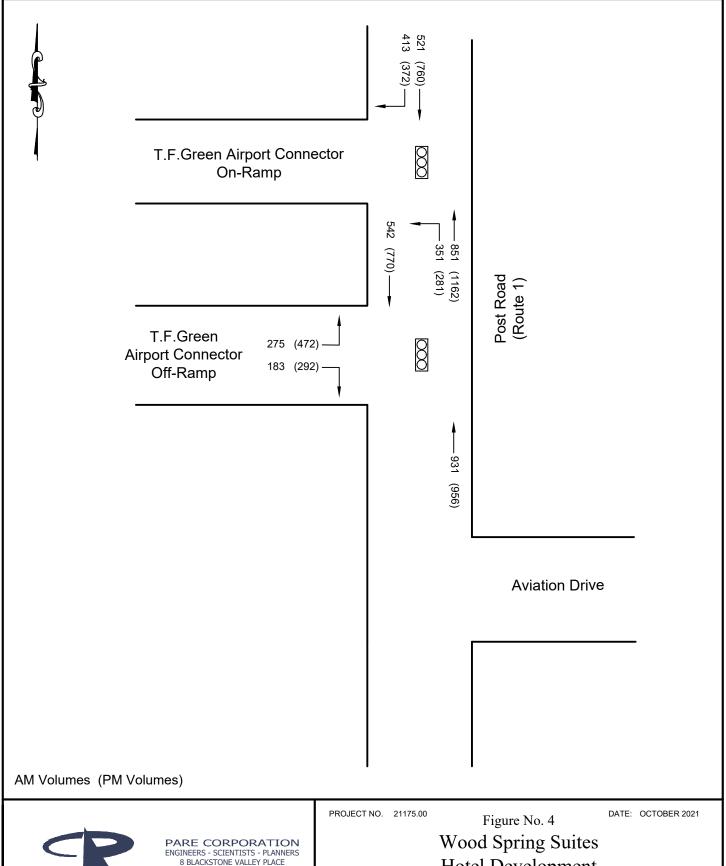
To determine the appropriate growth rate to apply to the transportation network within the study area, recent population census trends within the area were reviewed and correlated to expected background traffic growth. Population data in Warwick, RI was used to establish a background growth rate. The 2018, population estimates in Warwick, RI were 80,847, and in 2019, the population was 81,004, an average annual increase of .19% per year. To provide a conservative assessment, an annual growth rate of 0.5% was applied as a general background growth rate. General background growth data can be found in Appendix C.

#### *In-Process Developments*

Pare coordinated with the Town of Warwick, Rhode Island Airport Corporation, and RIDOT in September 2021 to determine if there were any other proposed developments in the area that may have an impact on future travel patterns or increase traffic volumes in the area. All three indicated that there were no known specific development proposals in the vicinity of the site at this time.

Based on the evaluation of the appropriate general background traffic growth and the assessment of future in-process developments, the Future (2026) No-Build scenario traffic volumes were determined. The Future (2026) No-Build scenario includes the existing traffic volumes with the addition of a 0.5% annual growth rate. The Future (2026) No-Build traffic volumes are shown in Figure 4.







ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100

Hotel Development

Future (2026) No-Build Volumes

WARWICK, RHODE ISLAND

## **Project Trip Generation**

The Future (2026) Build scenario represents the Future (2026) No-Build condition plus the traffic expected to be generated by the Project.

Trip generation for the proposed development was completed using the industry standard Institute of Transportation Engineers (ITE) *Trip Generation*,  $10^{th}$  *Edition*<sup>1</sup>. The proposed development was analyzed with Land Use Code (LUC) 310: Hotel and the trips are based on the number of rooms. Table 1 summarizes the trip generation for the 4-story 122-room development. Complete trip generation calculations are provided in Appendix D.

**Table 1: Trip Generation Summary** 

Land Use		Weekday, AM Peak Hour	Weekday, PM Peak Hour
	Entering	37	43
LUC 310 – Hotel (122 Rooms)	Exiting	33	31
(122 ROOMS)	Total	70	74

## **Project Trip Distribution**

The directional distribution of trips entering and exiting the site was determined based on existing traffic volume distribution. Additionally, trips to and from the site were split between the northern and southern site driveways. A summary of the trip distribution through the transportation network is shown in Figure 5. **Future (2026) Build Traffic Volumes** 

The Future (2026) Build traffic volumes consist of the Future (2026) No-Build traffic volumes with the addition of the Project generated traffic volumes. The Future (2026) Build weekday a.m. peak hour and weekday p.m. peak hour traffic volumes are shown in Figure 6. A summary comparing the difference between the Existing (2021) conditions, Future (2026) No-Build Conditions, and Future (2026) Build Conditions is located in Table 2.

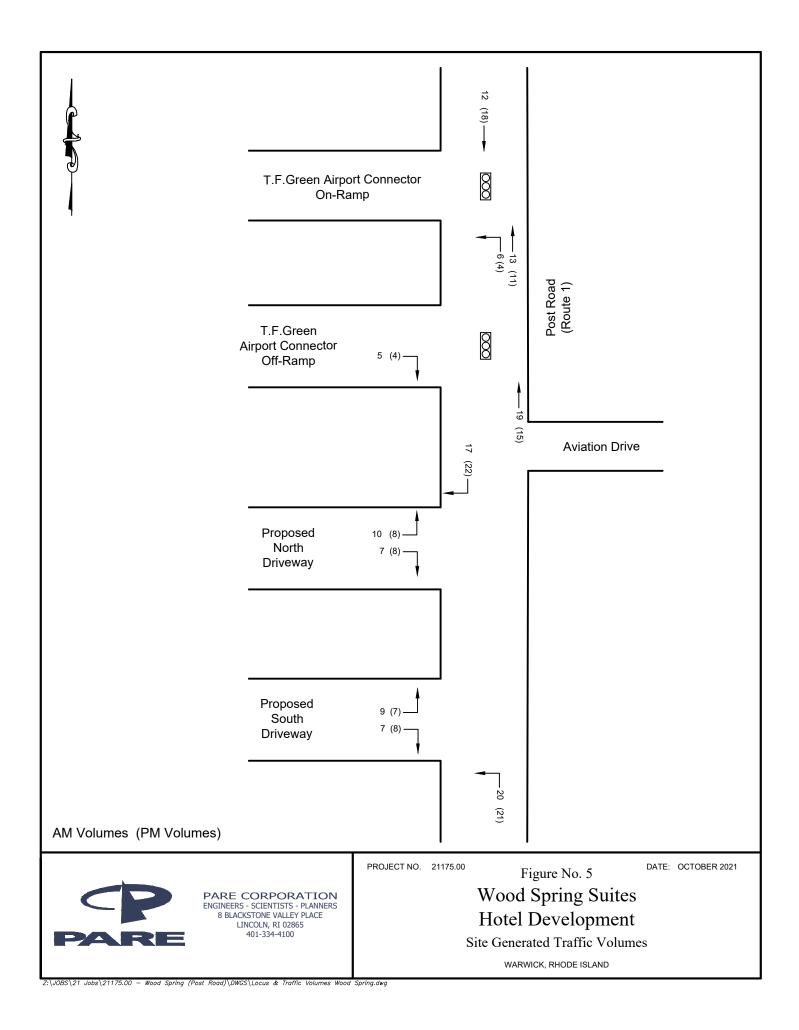
**Table 2: Analysis Scenario Summary** 

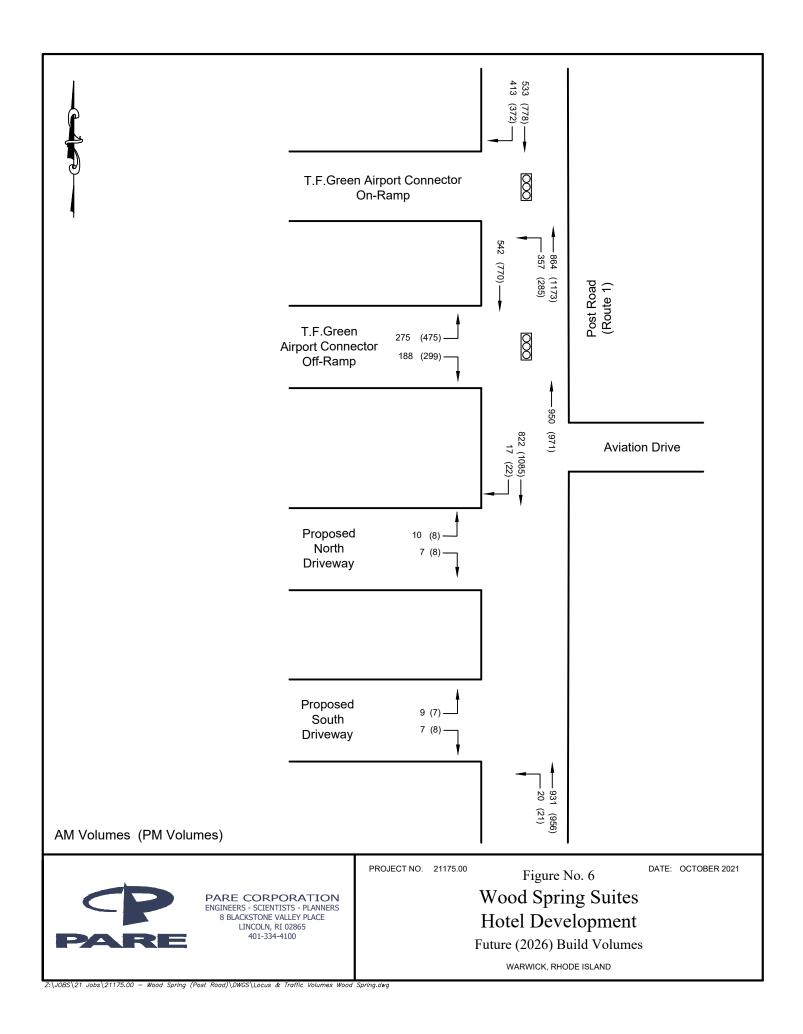
	Analysis Scenario	
Existing (2021) Conditions	Future (2026) No-Build Conditions	Future (2026) Build Conditions
Existing traffic volumes – these volumes are the peak hour traffic volumes collected in the intersection turning movement counts with the appropriate Covid-19 adjustment factor applied.	Future traffic volumes without the proposed development – these volumes are the existing traffic volumes inflated with a 0.5% annual growth rate over 5 years. This represents the anticipated future conditions if the proposed development is not constructed	Future traffic volumes with the proposed development – these volumes include the volumes established under the Future (2026) No-Build Conditions plus the trips generated by the proposed development. This represents the anticipated future conditions if the proposed development is constructed

\_\_\_



<sup>&</sup>lt;sup>1</sup> Trip Generation, 10<sup>th</sup> Edition; Institute of Transportation Engineers; Washington, DC; 2017.





## **TRAFFIC CAPACITY ANALYSIS**

Capacity analyses were completed for all the study intersections for Existing (2021), Future (2026) No-Build, and Future (2026) Build conditions. A capacity analysis characterizes intersections based on their level of service (LOS). LOS is a quality measure describing operational conditions within a traffic stream, generally in terms of service measures such as speed, travel times, traffic interruptions, etc. Six LOS are defined for each type of facility, from A to F, with A representing the best operating conditions and F representing the worst operating conditions. The LOS criteria, as defined by the 2010 Highway Capacity Manual<sup>2</sup> (HCM) for signalized and unsignalized intersections are provided in Table 3. Tables 4, 5 and 6 show the results of the capacity analysis. The complete capacity analysis results can be found in Appendix E.

Table 3: LOS Criteria for Signalized & Unsignalized Intersections

	Signalized Intersections	<b>Unsignalized Intersections</b>
LOS	Delay Time (sec/veh)	Delay Time (sec/veh)
A	0-10	0-10
В	> 10-20	> 10-15
C	> 20-35	> 15-25
D	> 35-55	> 25-35
E	> 55-80	> 35-50
F	> 80	> 50

In general, the results of the capacity analysis indicate that the introduction of traffic associated with the proposed hotel development to the adjacent roadway network has minimal impact on the study area. Details are highlighted below.

## Post Road (US-1) & T.F. Green Airport Connector On-Ramp

Under Existing (2021) conditions, the intersection of Post Road (US-1) and T.F. Green Airport Connector On-Ramp operates below capacity during the weekday a.m. peak hour and weekday p.m. peak hour. The overall intersection operates at LOS 'A' during the weekday a.m. peak hour and LOS 'A' during the weekday p.m. peak hour. Additionally, all approaches to the intersection operate at LOS 'B' or better during the both the weekday a.m. peak hour and weekday p.m. peak hour.

Under the Future (2026) No-Build condition, vehicle delay at the intersection slightly increases. The overall intersection LOS stays the same at LOS 'A' during the weekday a.m. peak hour and weekday p.m. peak hour. During the weekday a.m. peak hour, all approaches operate at LOS 'B' or better

Under the Future (2026) Build condition, operations at the intersection remain comparable to the Future (2026) No-Build condition. The overall intersection LOS remains at LOS 'A' during the weekday a.m. peak hour and weekday p.m. peak hour. Additionally, the LOS for each intersection movement remains the same as under the Future (2026) No-Build condition.



<sup>&</sup>lt;sup>2</sup> Highway Capacity Manual; Transportation Research Board; Washington, DC; 2010.

Table 4: Intersection Capacity Analysis Results - Signalized Intersections (On-Ramp)

	2021 Existing 2026 No-Build 2026 Build							
Intersection	Mov	ement	2021 E	xisting	2026	No-Build	2020	6 Build
Intersection	MOV	ement	LOS	Delay <sup>1</sup>	LOS	Delay <sup>1</sup>	LOS	Delay <sup>1</sup>
				AM P	eak Hou	ır		
	NB	T	Α	0.2	Α	0.2	A	0.2
		L	В	15.2	В	16.1	В	16.6
Post Road	SB	T	В	15.6	В	15.8	В	15.9
(US-1) &		R	Α	0.5	Α	0.5	A	0.5
T.F. Green	Inters	ection	A	6.5	Α	6.6	A	6.8
Airport				PM P	eak Hou	ır		
Connector	NB	T	A	0.2	A	0.2	A	0.2
On-Ramp		L	A	9.3	Α	9.5	A	9.6
	SB	T	В	18.8	В	19.3	В	19.6
		R	A	0.4	Α	0.4	A	0.4
	Inters	ection	A	6.8	Α	7.0	A	7.1

- # The 95<sup>th</sup> percentile volume exceeds capacity; queue may be longer.
- Delay is measured in seconds/vehicle.

Table 5: Intersection Capacity Analysis Results - Signalized Intersections (Off-Ramp)

		Superior 121101/300 210501105 Signature ======= (Signature (Signature )							
Intersection	Morri		2021 E	xisting	2026	No-Build	202	6 Build	
intersection	Move	ement	LOS	Delay <sup>1</sup>	LOS	Delay <sup>1</sup>	LOS	Delay <sup>1</sup>	
			AM Peak Hour						
	NB	T	A	5.3	Α	5.4	A	5.4	
	SB	T	A	4.8	Α	4.8	A	4.6	
Post Road	EB	L	C	30.1	C	30.6	C	30.7	
(US-1) &		R	В	11.9	В	12.0	В	12.1	
T.F. Green	Inters	ection	A	9.5	Α	9.6	A	9.5	
Airport		•	•	PM Peak Hour					
Connector	rt stor NB T		A	4.7	Α	4.8	A	4.8	
Off-Ramp	SB	T	A	5.8	Α	6.0	Α	6.0	
	EB	L	F	81.7	F	89.9	F	89.9	
		R	В	13.5	В	13.7	В	13.8	
	Inters	ection	C	20.7	C	22.3	C	22.2	

- # The 95th percentile volume exceeds capacity; queue may be longer.
- 1. Delay is measured in seconds/vehicle.

Table 6: Intersection Capacity Analysis Results – Unsignalized Intersection (Driveway)

Intersection	Morri	ement	202	6 Build	
Intersection	MOVE	ement	LOS	Delay <sup>1</sup>	
	AM Peak Hour				
Dant Dan J	NB	L	A	9.9	
Post Road	EB L,R		D	31.6	
WoodSpring Suites	PM Peak Hour				
Driveway	NB	L	В	11.3	
Dilveway		T	A	0.5	
	EB	L,R	Е	41.4	

- # The 95th percentile volume exceeds capacity; queue may be longer.
- Delay is measured in seconds/vehicle.

## Post Road (US-1) & T.F. Green Airport Connector Off-Ramp

Under Existing (2021) conditions, the intersection of Post Road (US-1) and T.F. Green Airport Connector Off-Ramp operates below capacity during the weekday a.m. peak hour and weekday p.m. peak hour. The overall intersection operates at LOS 'A' during the weekday a.m. peak hour and LOS 'C' during the weekday p.m. peak hour. Additionally, with the exception of the eastbound left turn movement all approaches to the intersection operate at LOS 'B' or better during the both the weekday a.m. peak hour and weekday p.m. peak hour.



Under the Future (2026) No-Build condition, vehicle delay at the intersection slightly increases. The overall intersection LOS stays the same at LOS 'A' during the weekday a.m. peak hour and LOS 'C' during weekday p.m. peak hour. During the weekday a.m. peak hour, all approaches operate at LOS 'A' except the eastbound left turn approach the functions at a LOS 'C'. During the weekday p.m. peak hour, the eastbound left movement is expected to operate at LOS 'F' with an average vehicle delay of 89.9 seconds per vehicle.

Under the Future (2026) Build condition, operations at the intersection remain comparable to the Future (2026) No-Build condition. The overall intersection LOS remains at LOS 'C' during the weekday a.m. peak hour and weekday p.m. peak hour. Additionally, the LOS for each intersection movement remains the same as the Future (2026) No-Build condition. Vehicle delay at the eastbound left-turn movement stays the same under the Future (2026) No-Build condition.

#### Post Road (US-1) & WoodSpring Suites Driveway

In order to present a conservative analysis of the site driveway operation after construction, the two driveways were analyzed as a single driveway for this site. Under Future Build (2026) conditions, the intersection of Post Road (US-1) and WoodSpring Suites operates below capacity during the weekday a.m. peak hour and weekday p.m. peak hour. The northbound movement operates at LOS 'A' during the weekday a.m. peak hour and LOS 'B' during the weekday p.m. peak hour. Eastbound vehicles at the intersection operate at LOS 'D' during the weekday a.m. peak hour and LOS 'E' during the weekday p.m. peak hour. Queuing onsite will be minimal and there will be no significant impact on the Post Road traffic flow.



#### **SAFETY ANALSYIS**

## Crash History

Vehicle crash data for the study area was obtained from the Warwick Police Department for the period of January 1, 2017, through January 1, 2020, a total of 3 years. Within this period, a total of 8 crashes were reported within the study area. One of these crashes resulted in injury and none resulted in a fatality. The crash data is summarized in Table 7 below.

**Table 7: Crash Data Summary** 

		Cra	ash Severi	ty		Type of	Crash	
Roadway/Intersection	Total Crashes	Property Damage Only	Non- Fatal Injury	Fatal Injury	Angle	Rear- End	Loss of Control	Object/ Animal
Post Road at T.F. Green Airport Connector Road Off-Ramp	4	4	-	-	1	-	3	-
Post Road at T.F. Green Airport Connector Road On-Ramp	4	4	-	-	-	2	2	-

Notable trends of incidents identified in the crash data include the following:

- The majority (five of the 8 crashes) that occurred within the study area were crashes due to loss of control at the signalized intersection of Post Road at T.F. Green Airport Connector Road Off-Ramp and Post Road at T.F. Green Airport Connector Road On-Ramp.
- 2) Two rear end collisions occurred on T.F. Green Airport Connector Road On-Ramp. Rear end crashes are common at signalized intersections given the stop-and-go nature of traffic at these locations and are typically of low severity.
- 3) All eight crashes involved property damage only. No injuries were reported at either of these intersections.

#### Sight Distance Analysis

Spot speed studies were performed on Post Road (US-1) in the vicinity of the proposed development driveways to determine travel speeds on the existing roadway. A radar gun collecting individual vehicle speeds was used for the spot speed study. The vehicle speed data collected is summarized below. Complete speed study results are provided in Appendix F.

Table 8: Post Road (US 1) Speed Study Results

Direction	Posted Speed Limit	Average Speed	Median Speed	85 Percentile Speed	10 mph Pace Speed	Percent Over 35 MPH
Northbound	35	41	40	46	37-46	98%
Southbound	35	39	38	43	35-44	90%

- 1. All speed data reported in miles per hour (mph).
- 2. Data was collected at 2245 Post Road between 11:45 a.m. 12:45 p.m. on September 21, 2021.



Based on the spot speed study performed on Post Road (US-1), a design speed of 50 miles per hour was selected for Post Road (US-1), which is greater than the 85<sup>th</sup> percentile speed recorded on the roadway and above the 35 mile-per-hour posted speed limit. According to the American Association of State Highway and Transportation Officials (AASHTO), the minimum required stopping sight distance is 425 feet for a 50-mph design speed and the intersection sight distance for a 50 mile per hour design speed is 555 feet.

Intersection sight distance measurements were taken from each of the proposed driveway locations with direct access onto Post Road (US-1). From the proposed intersection of the southern site driveway with (US-1), the available intersection sight distance in each direction is over 555 feet. This exceeds the AASHTO requirement for the selected design speed and the posted speed limit.

From the northern site driveway, the intersection sight distance to the north is unimpeded to the intersection at T.F. Green Airport Connector Off-Ramp and exceeds AASHTO requirements.

**Table 9: Sight Distance Summary** 

	·	Required SSD	Measured SSD	Required ISD	Measured ISD
		(ft)	(ft)	(ft)	(ft)
Existing Northern	To the North	425	>600	555	>600
Site Driveway	To the South	425	>1000	555	>1000
Proposed Southern	To the North	425	>600	555	>600
Site Driveway	To the South	425	>1000	555	>1000

SSD – Stopping Sight Distance ISD – Intersection Sight Distance



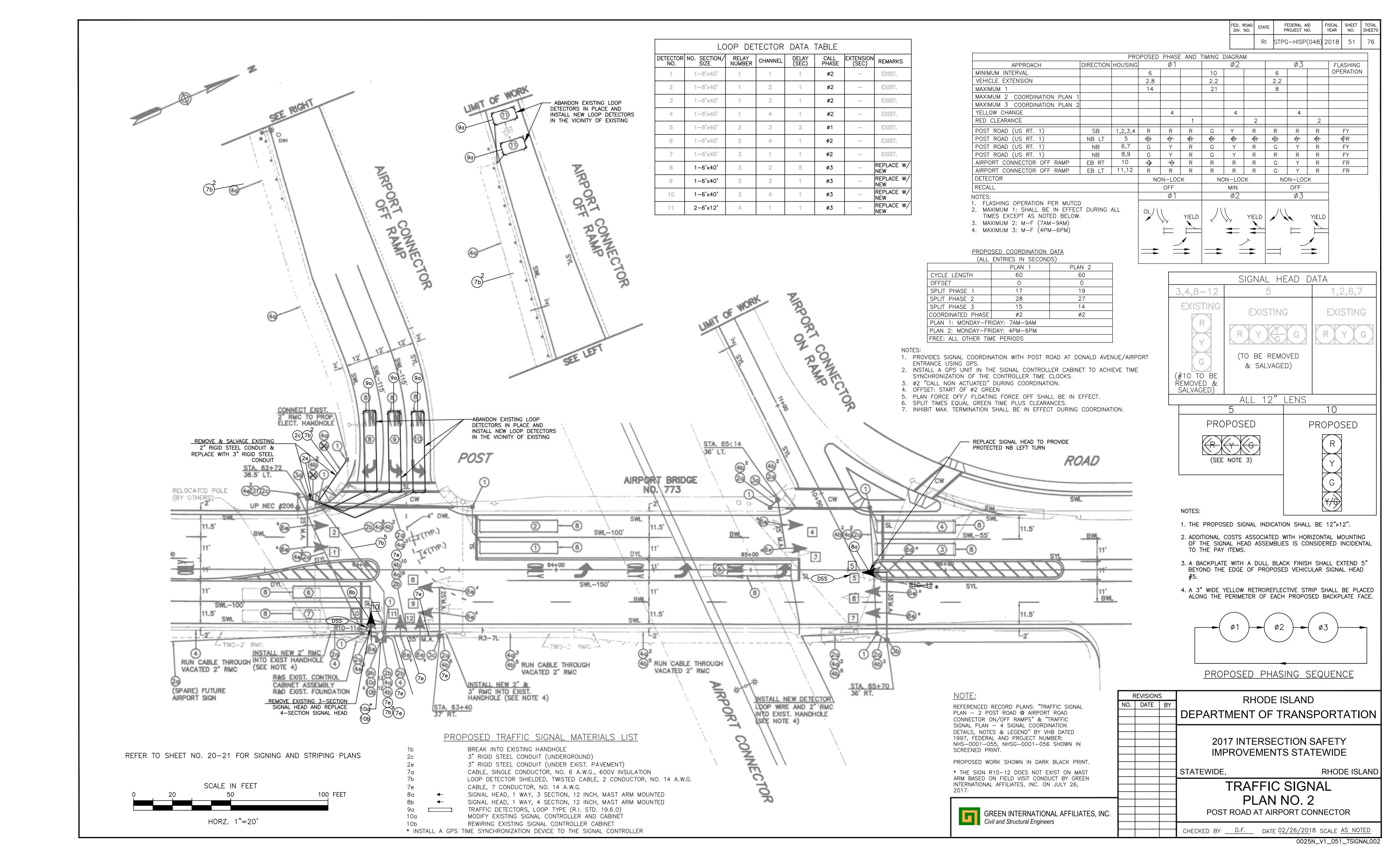
## **CONCLUSIONS & RECOMMENDATIONS**

After completing the analysis for the proposed WoodSpring Suites Hotel development, comparing Existing (2021) conditions, Future (2026) No-Build conditions, and Future (2026) Build conditions, the following can be concluded regarding the site's impact:

- The traffic analysis methodology included in the study provides a conservative assessment
  of the future traffic conditions along the roadway network in the vicinity of the proposed
  development.
- Sight distance requirements at the site's proposed driveways meet or exceed AASHTO requirements.
- The new trips anticipated to be generated by the proposed hotel development are expected to have minimal impact on the traffic operations and intersection capacity of the surrounding roadway network when comparing Future (2026) No-Build to Future (2026) Build conditions.
- Vehicle delay slightly increases at the intersection of Post Road (US-1) and T.F Green Airport Connector on-ramp and the T.F. Green Airport Connector off-ramp intersection, however overall levels of service do not change.
- There is enough capacity at the site driveways to handle the site's expected traffic without impacting traffic flow on Post Road.
- A Physical Alteration Permit with the Rhode Island Department of Transportation will be required for the development given the change in land use of the property and the proposed driveway intersections with the State-owned roadway of Post Road (US-1).



Appendix		
RIDOT Traffic Signal Pla		



Appendix B	
Traffic Count Data	

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462A Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds

				Groups Prin	ted- Cars & Po	eds				
	Pos	st Road (Rout From North	te 1)	Pos	t Road (Route From South	e 1)	R	n Connector I amp (Exit 1B From West		
Start Time	e Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	1 0	62	0	146	0	0	25	46	0	279
07:15 AM	1 0	91	0	170	0	0	23	54	0	338
07:30 AM	1 0	126	0	217	0	0	34	56	0	433
07:45 AM	1 0	123	0	222	0	0	45	65	0	455
Tota	1 0	402	0	755	0	0	127	221	0	1505
08:00 AM	1 0	107	0	210	0	0	32	51	0	400
08:15 AM	1 0	107	0	151	0	0	47	68	0	373
08:30 AM	1 0	126	0	197	0	0	40	49	1	413
08:45 AM	1 0	133	0	185	0	0	40	72	0	430
Tota	1 0	473	0	743	0	0	159	240	1	1616
Grand Tota	d 0	875	0	1498	0	0	286	461	1	3121
Apprch %	6 0	100	0	100	0	0	38.2	61.6	0.1	
Total %	6 0	28	0	48	0	0	9.2	14.8	0	

		Post Roa From	d (Route North	1)		Post Roa From	1)	T.F. Green Connector Road Off-Ramp (Exit 1B) From West					
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:	00 AM to	08:45 AM	1 - Peak 1 of	1								
Peak Hour for Entir	e Intersec	tion Begin	s at 07:3	0 AM									
07:30 AM	0	126	0	126	217	0	0	217	34	56	0	90	433
07:45 AM	0	123	0	123	222	0	0	222	45	65	0	110	455
08:00 AM	0	107	0	107	210	0	0	210	32	51	0	83	400
08:15 AM	0	107	0	107	151	0	0	151	47	68	0	115	373
Total Volume	0	463	0	463	800	0	0	800	158	240	0	398	1661
% App. Total	0	100	0		100	0	0		39.7	60.3	0		
PHF	.000	.919	.000	.919	.901	.000	.000	.901	.840	.882	.000	.865	.913

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462A Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Trucks & Buses

	Post Road (Route 1) From North				Road (Route From South	e 1)	T.F. Greer Ra			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	0	5	0	6	0	0	2	0	0	13
07:15 AM	0	5	0	1	0	0	2	2	0	10
07:30 AM	0	7	0	5	0	0	0	0	0	12
07:45 AM	0	4	0	8	0	0	2	0	0	14_
Total	0	21	0	20	0	0	6	2	0	49
08:00 AM	0	2	0	5	0	0	1	0	0	8
08:15 AM	0	4	0	6	0	0	0	3	0	13
08:30 AM	0	7	0	1	0	0	3	3	0	14
08:45 AM	0	4	0	7	0	0	0	2	0	13
Total	0	17	0	19	0	0	4	8	0	48
Grand Total Apprch %	0	38 100	0 0	39 100	0 0	0	10 50	10 50	0 0	97
Total %	0	39.2	0	40.2	0	0	10.3	10.3	0	

	F		d (Route North	1)	Post Road (Route 1) From South				T.F. Gree	d Off-Ramp			
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:0	0 AM to	08:45 AN	l - Peak 1 of	1								
Peak Hour for Entir	e Intersection	on Begin	s at 07:00	O AM									
07:00 AM	0	5	0	5	6	0	0	6	2	0	0	2	13
07:15 AM	0	5	0	5	1	0	0	1	2	2	0	4	10
07:30 AM	0	7	0	7	5	0	0	5	0	0	0	0	12
07:45 AM	0	4	0	4	8	0	0	8	2	0	0	2	14
Total Volume	0	21	0	21	20	0	0	20	6	2	0	8	49
% App. Total	0	100	0		100	0	0		75	25	0		
PHF	.000	.750	.000	.750	.625	.000	.000	.625	.750	.250	.000	.500	.875

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462A Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Bikes by Direction

		Post Road (Route 1) From North			Road (Rout From South	e 1)	T.F. Greer Ra			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	0	1	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	1	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total Apprch % Total %	0	1 100 50	0 0	1 100 50	0	0	0	0	0 0	2
10tal %	U	50	υį	50	U	U	U	U	U	

		Post Road From	d (Route North	1)	Post Road (Route 1) From South				T.F. Gree	d Off-Ramp			
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:0	00 AM to	08:45 AN	1 - Peak 1 of	· 1								
Peak Hour for Entir	e Intersect	ion Begin	s at 07:00	D AM									
07:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	1	0	1	1	0	0	1	0	0	0	0	2
% App. Total	0	100	0		100	0	0		0	0	0		
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.000	.000	.000	.500

# Transportation Data Corporation

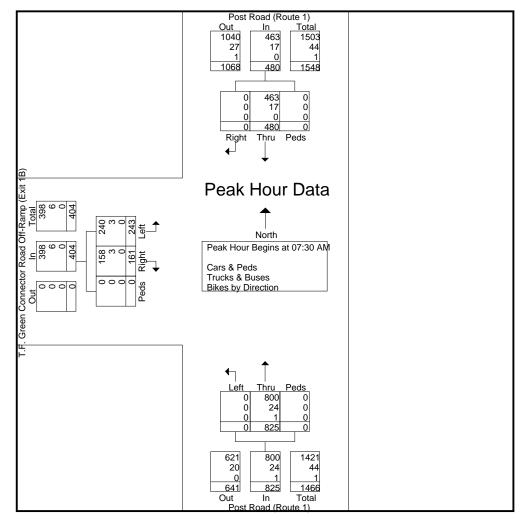
Mario Perone, mperonel@verizon.net tel (781) 587-0086 cell (781) 439-4999

N/S: Post Road (Route 1)

W: T.F. Green Connector Road Off-Ramp	Site Code	: 05462
City, State: Warwick, RI	Start Date	: 9/21/2021
Client: Pare/J. Shevlin	Page No	: 1

File Name: 05462A

	F	Post Road From	d (Route North	1)	Post Road (Route 1) From South				T.F. Green Connector Road Off-Ram (Exit 1B) From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds A	App. Total	Int. Total
Peak Hour Analysis	From 07:0	00 AM to	08:45 AN	1 - Peak 1 of	1	,							
Peak Hour for Entir	e Intersecti	on Begins	s at 07:30	O AM									
07:30 AM	0	133	0	133	223	0	0	223	34	56	0	90	446
07:45 AM	0	127	0	127	230	0	0	230	47	65	0	112	469
08:00 AM	0	109	0	109	215	0	0	215	33	51	0	84	408
08:15 AM	0	111	0	111	157	0	0	157	47	71	0	118	386
Total Volume	0	480	0	480	825	0	0	825	161	243	0	404	1709
% App. Total	0	100	0		100	0	0		39.9	60.1	0		
PHF	.000	.902	.000	.902	.897	.000	.000	.897	.856	.856	.000	.856	.911
Cars & Peds	0	463	0	463	800	0	0	800	158	240	0	398	1661
% Cars & Peds	0	96.5	0	96.5	97.0	0	0	97.0	98.1	98.8	0	98.5	97.2
Trucks & Buses	0	17	0	17	24	0	0	24	3	3	0	6	47
% Trucks & Buses	0	3.5	0	3.5	2.9	0	0	2.9	1.9	1.2	0	1.5	2.8
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.1	0	0	0.1	0	0	0	0	0.1



N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462A Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

		Road (Route From North			t Road (Route From South		T.F. Greer Ra			
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	0	68	0	152	0	0	27	46	0	293
07:15 AM	0	96	0	171	0	0	25	56	0	348
07:30 AM	0	133	0	223	0	0	34	56	0	446
07:45 AM	0	127	0	230	0	0	47	65	0	469
Total	0	424	0	776	0	0	133	223	0	1556
									1	
08:00 AM	0	109	0	215	0	0	33	51	0	408
08:15 AM	0	111	0	157	0	0	47	71	0	386
08:30 AM	0	133	0	198	0	0	43	52	1	427
08:45 AM	0	137	0	192	0	0	40	74	0	443
Total	0	490	0	762	0	0	163	248	1	1664
									1	
Grand Total	0	914	0	1538	0	0	296	471	1	3220
Apprch %	0	100	0	100	0	0	38.5	61.3	0.1	
Total %	0	28.4	0	47.8	0	0	9.2	14.6	0	
Cars & Peds	0	875	0	1498	0	0	286	461	1	3121
% Cars & Peds	0	95.7	0	97.4	0	0	96.6	97.9	100	96.9
Trucks & Buses	0	38	0	39	0	0	10	10	0	97
% Trucks & Buses	0	4.2	0	2.5	0	0	3.4	2.1	0	3_
Bikes by Direction	0	1	0	1	0	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0	0	0	0	0	0.1

		Post Roa From	d (Route North	1)	Post Road (Route 1) From South				T.F. Green Connector Road Off-Ramp (Exit 1B) From West				
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:	00 AM to	08:45 AM	1 - Peak 1 of	1								
Peak Hour for Entir	e Intersec	tion Begin	s at 07:3	0 AM									
07:30 AM	0	133	0	133	223	0	0	223	34	56	0	90	446
07:45 AM	0	127	0	127	230	0	0	230	47	65	0	112	469
08:00 AM	0	109	0	109	215	0	0	215	33	51	0	84	408
08:15 AM	0	111	0	111	157	0	0	157	47	71	0	118	386
Total Volume	0	480	0	480	825	0	0	825	161	243	0	404	1709
% App. Total	0	100	0		100	0	0		39.9	60.1	0		
PHF	.000	.902	.000	.902	.897	.000	.000	.897	.856	.856	.000	.856	.911
Cars & Peds	0	463	0	463	800	0	0	800	158	240	0	398	1661
% Cars & Peds	0	96.5	0	96.5	97.0	0	0	97.0	98.1	98.8	0	98.5	97.2
Trucks & Buses	0	17	0	17	24	0	0	24	3	3	0	6	47
% Trucks & Buses	0	3.5	0	3.5	2.9	0	0	2.9	1.9	1.2	0	1.5	2.8
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.1	0	0	0.1	0	0	0	0	0.1

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462AA

Site Code : 05462 Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds

				Groups Printed	- Cars & Peus					
	Post Road (Route 1) From North				Road (Route 1) From South		T.F. Green Co Ram Fr	Off-		
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	0	177	0	206	0	0	65	100	0	548
04:15 PM	0	179	0	216	0	0	69	97	0	561
04:30 PM	0	158	0	221	0	0	56	109	0	544
04:45 PM	0	160	0	197	0	0	67	111	0	535
Total	0	674	0	840	0	0	257	417	0	2188
05:00 PM	0	168	0	230	0	0	55	93	1	547
05:15 PM	0	173	0	180	0	0	58	104	0	515
05:30 PM	0	132	0	186	0	0	45	93	1	457
05:45 PM	0	145	0	176	0	0	43	94	0	458
Total	0	618	0	772	0	0	201	384	2	1977
Grand Total	0	1292	0	1612	0	0	458	801	2	4165
Apprch %	0	100	0	100	0	0	36.3	63.5	0.2	
Total %	0	31	0	38.7	0	0	11	19.2	0	

	]	Post Road From	(Route 1) North		From South				T.F. Green		t 1B)	off-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis I	From 04:00	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:00 PM										
04:00 PM	0	0 177 0 177				0	0	206	65	100	0	165	548
04:15 PM	0	179	0	179	216	0	0	216	69	97	0	166	561
04:30 PM	0	158	0	158	221	0	0	221	56	109	0	165	544
04:45 PM	0	160	0	160	197	0	0	197	67	111	0	178	535
Total Volume	0	674	0	674	840	0	0	840	257	417	0	674	2188
% App. Total	0	100	0		100	0	0		38.1	61.9	0		
PHF	.000	.941	.000	.941	.950	.000	.000	.950	.931	.939	.000	.947	.975

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462AA

Site Code : 05462 Start Date : 9/21/2021

Page No : 1

Groups Printed- Trucks & Buses

			C	noups Pillieu	- ITUCKS & Du	503				
	Post Road (Route 1) From North Right Thru Peds			Post	t Road (Route 1 From South	1)	R	Connector Roamp (Exit 1B) From West		
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	0	3	0	2	0	0	0	1	0	6
04:15 PM	0	2	0	2	0	0	0	0	0	4
04:30 PM	0	1	0	0	0	0	1	0	0	2
04:45 PM	0	1	0	2	0	0	0	0	0	3
Total	0	7	0	6	0	0	1	1	0	15
05:00 PM	0	2	0	2	0	0	0	0	0	4
05:15 PM	0	0	0	2	0	0	0	3	0	5
05:30 PM	0	1	0	1	0	0	0	1	0	3
05:45 PM	0	1	0	4	0	0	0	0	0	5
Total	0	4	0	9	0	0	0	4	0	17
Grand Total	0	11	0	15	0	0	1	5	0	32
Apprch %	0	100	0	100	0	0	16.7	83.3	0	
Total %	0	34.4	0	46.9	0	0	3.1	15.6	0	

	]		(Route 1) North		From South					n Connecto (Exi From	t 1B)	off-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 04:00	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	05:00 PM	[									
05:00 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
05:15 PM	0	0	0	0	2	0	0	2	0	3	0	3	5
05:30 PM	0	1	0	1	1	0	0	1	0	1	0	1	3
05:45 PM	0	1	0	1	4	0	0	4	0	0	0	0	5_
Total Volume	0	4	0	4	9	0	0	9	0	4	0	4	17
% App. Total	0	100	0		100	0	0		0	100	0		
PHF	.000	.500	.000	.500	.563	.000	.000	.563	.000	.333	.000	.333	.850

N/S: Post Road (Route 1) W: T.F. Green Connector Road Off-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462AA

Site Code : 05462 Start Date : 9/21/2021

Page No : 1

Groups Printed- Bikes by Direction

			UI	oups i iiiicu-	Dikes by Direc	LIUII				
		Road (Route ) From North	1)	Post	Road (Route From South	1)	Ra	Connector Roa amp (Exit 1B) From West	d Off-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	1	0	0	0	0	0	1
04:30 PM	0	1	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	1	0	0	0	0	0	2
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	50	0	50	0	0	0	0	0	

	]	Post Road From	(Route 1) North		From South				T.F. Gree	(Exi	or Road C t 1B) West	Off-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 04:00	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:00 PM										
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0_
Total Volume	0	1	0	1	1	0	0	1	0	0	0	0	2
— % App. Total	0	100	0		100	0	0		0	0	0		
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.000	.000	.000	.500

# Transportation Data Corporation

Mario Perone, mperone1@verizon.net tel (781) 587-0086 cell (781) 439-4999

N/S: Post Road (Route 1)

W: T.F. Green Connector Road Off-Ramp

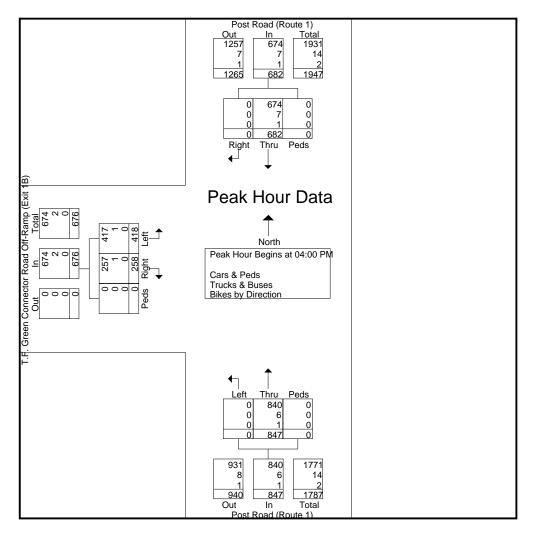
City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462AA Site Code: 05462

Start Date : 9/21/2021

Page No : 1

	I	Post Road From	(Route 1) North		From South				T.F. Gree	n Connecto (Exi From	t 1B) West	•	
Start Time	Right	Thru	Peds	App. Total						Left	Peds	App. Total	Int. Total
Peak Hour Analysis I	From 04:00	PM to 05:	45 PM - P	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:00 PM	1									
04:00 PM	0	180	0	180	208	0	0	208	65	101	0	166	554
04:15 PM	0	181	0	181	219	0	0	219	69	97	0	166	566
04:30 PM	0	160	0	160	221	0	0	221	57	109	0	166	547
04:45 PM	0	161	0	161	199	0	0	199	67	111	0	178	538
Total Volume	0	682	0	682	847	0	0	847	258	418	0	676	2205
% App. Total	0	100	0		100	0	0		38.2	61.8	0		
PHF	.000	.942	.000	.942	.958	.000	.000	.958	.935	.941	.000	.949	.974
Cars & Peds	0	674	0	674	840	0	0	840	257	417	0	674	2188
% Cars & Peds	0	98.8	0	98.8	99.2	0	0	99.2	99.6	99.8	0	99.7	99.2
Trucks & Buses	0	7	0	7	6	0	0	6	1	1	0	2	15
% Trucks & Buses	0	1.0	0	1.0	0.7	0	0	0.7	0.4	0.2	0	0.3	0.7
Bikes by Direction	0	1	0	1	1	0	0	1	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0.1	0	0	0.1	0	0	0	0	0.1



N/S: Post Road (Route 1)

W: T.F. Green Connector Road Off-Ramp

City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462AA

Site Code : 05462 Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

		Road (Route From North			Road (Route From South	•	T.F. Green Ra	Connector Roa amp (Exit 1B) From West	ad Off-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	0	180	0	208	0	0	65	101	0	554
04:15 PM	0	181	0	219	0	0	69	97	0	566
04:30 PM	0	160	0	221	0	0	57	109	0	547
04:45 PM	0	161	0	199	0	0	67	111	0	538
Total	0	682	0	847	0	0	258	418	0	2205
05:00 PM	0	170	0	232	0	0	55	93	1	551
05:15 PM	0	173	0	182	0	0	58	107	0	520
05:30 PM	0	133	0	187	0	0	45	94	1	460
05:45 PM	0	146	0	180	0	0	43	94	0	463
Total	0	622	0	781	0	0	201	388	2	1994
Grand Total	0	1304	0	1628	0	0	459	806	2	4199
Apprch %	0	100	0	100	0	0	36.2	63.6	0.2	
Total %	0	31.1	0	38.8	0	0	10.9	19.2	0	
Cars & Peds	0	1292	0	1612	0	0	458	801	2	4165
% Cars & Peds	0	99.1	0	99	0	0	99.8	99.4	100	99.2
Trucks & Buses	0	11	0	15	0	0	1	5	0	32
% Trucks & Buses	0	0.8	0	0.9	0	0	0.2	0.6	0	0.8
Bikes by Direction	0	1	0	1	0	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0	0	0	0	0	0

	F	Post Road ( From I			From South   Total   Thru   Left   Peds   App. Total   1					Connecto (Exi From	t 1B)	ff-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis I	From 04:00 I	PM to 05:4	5 PM - P	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:00 PM	1									
04:00 PM	0	180	0	180	208	0	0	208	65	101	0	166	554
04:15 PM	0	181	0	181	219	0	0	219	69	97	0	166	566
04:30 PM	0	160	0	160	221	0	0	221	57	109	0	166	547
04:45 PM	0	161	0	161	199	0	0	199	67	111	0	178	538
Total Volume	0	682	0	682	847	0	0	847	258	418	0	676	2205
% App. Total	0	100	0		100	0	0		38.2	61.8	0		
PHF	.000	.942	.000	.942	.958	.000	.000	.958	.935	.941	.000	.949	.974
Cars & Peds	0	674	0	674	840	0	0	840	257	417	0	674	2188
% Cars & Peds	0	98.8	0	98.8	99.2	0	0	99.2	99.6	99.8	0	99.7	99.2
Trucks & Buses	0	7	0	7	6	0	0	6	1	1	0	2	15
% Trucks & Buses	0	1.0	0	1.0	0.7	0	0	0.7	0.4	0.2	0	0.3	0.7
Bikes by Direction	0	1	0	1	1	0	0	1	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0.1	0	0	0.1	0	0	0	0	0.1

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462B Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds

	ъ.	D 1 (D / 1)		•	u- Cars & Peus		T.F. Green C	onnector Road	On-	
		Road (Route 1)	)		Road (Route 1)	1	Ran	np (Exit 1B)		
		From North			From South		Fi	rom West		
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	97	61	0	141	53	0	0	0	0	352
07:15 AM	93	90	0	157	68	0	0	0	0	408
07:30 AM	93	125	0	192	80	0	0	0	0	490
07:45 AM	84	121	0	204	83	0	0	0	0	492
Total	367	397	0	694	284	0	0	0	0	1742
08:00 AM	78	108	0	183	76	0	0	0	0	445
08:15 AM	80	111	0	170	49	0	0	0	0	410
08:30 AM	66	123	0	185	60	0	0	0	1	435
08:45 AM	56	134	0	188	67	0	0	0	0	445
Total	280	476	0	726	252	0	0	0	1	1735
Grand Total	647	873	0	1420	536	0	0	0	1	3477
Apprch %	42.6	57.4	0	72.6	27.4	0	0	0	100	
Total %	18.6	25.1	0	40.8	15.4	0	0	0	0	

	F		(Route 1) North			Post Road From	` /	1	T.F. Gree		t 1B)	n-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 07:00 A	AM to 08:	45 AM - P	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	07:30 AM	I .									
07:30 AM	93	125	0	218	192	80	0	272	0	0	0	0	490
07:45 AM	84	121	0	205	204	83	0	287	0	0	0	0	492
08:00 AM	78	108	0	186	183	76	0	259	0	0	0	0	445
08:15 AM	80	111	0	191	170	49	0	219	0	0	0	0	410
Total Volume	335	465	0	800	749	288	0	1037	0	0	0	0	1837
% App. Total	41.9	58.1	0		72.2	27.8	0		0	0	0		
PHF	.901	.930	.000	.917	.918	.867	.000	.903	.000	.000	.000	.000	.933

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462B Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Trucks & Buses

	Post Road (Route 1) From North Right Thru Peds			•	Road (Route From South		Ra	Connector Roa amp (Exit 1B) From West	d On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	2	5	0	6	0	0	0	0	0	13
07:15 AM	8	5	0	2	1	0	0	0	0	16
07:30 AM	3	6	0	4	1	0	0	0	0	14
07:45 AM	3	4	0	7	1	0	0	0	0	15
Total	16	20	0	19	3	0	0	0	0	58
08:00 AM	3	2	0	4	1	0	0	0	0	10
08:15 AM	2	3	0	6	2	0	0	0	0	13
08:30 AM	2	7	0	4	1	0	0	0	0	14
08:45 AM	4	4	0	7	2	0	0	0	0	17_
Total	11	16	0	21	6	0	0	0	0	54
Grand Total	27	36	0	40	9	0	0	0	0	112
Apprch %	42.9	57.1	0	81.6	18.4	0	0	0	0	
Total %	24.1	32.1	0	35.7	8	0	0	0	0	

	]	Post Road From	(Route 1) North		From South				T.F. Green		t 1B)	On-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis I	From 07:00	AM to 08:	45 AM - I	Peak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	07:00 AM	1									
07:00 AM	2	5	0	7	6	0	0	6	0	0	0	0	13
07:15 AM	8	5	0	13	2	1	0	3	0	0	0	0	16
07:30 AM	3	6	0	9	4	1	0	5	0	0	0	0	14
07:45 AM	3	4	0	7	7	1	0	8	0	0	0	0	15_
Total Volume	16	20	0	36	19	3	0	22	0	0	0	0	58
% App. Total	44.4	55.6	0		86.4	13.6	0		0	0	0		
PHF	.500	.833	.000	.692	.679	.750	.000	.688	.000	.000	.000	.000	.906

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462B Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Bikes by Direction

				oups Printea-	Dines of Dire		T.F. Green	Connector Roa	d On	
	Post	Road (Route 1	1)	Post	Road (Route	1)			iu Oii-	
		From North			From South			imp (Exit 1B)		
								From West		
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	0	1	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	1	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0_
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	1	0	0	0	0	0	2
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	50	0	50	0	0	0	0	0	

	]	Post Road From	(Route 1) North			Post Road From	` /	)	T.F. Gree		t 1B)	On-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 07:00	AM to 08:	45 AM - F	Peak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	07:00 AM	1									
07:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	1	0	0	1	0	0	0	0	2
% App. Total	0	100	0		100	0	0		0	0	0		
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.000	.000	.000	.500

# Transportation Data Corporation

Mario Perone, mperonel@verizon.net tel (781) 587-0086 cell (781) 439-4999

N/S: Post Road (Route 1)

W: T.F. Green Connector Road On-Ramp

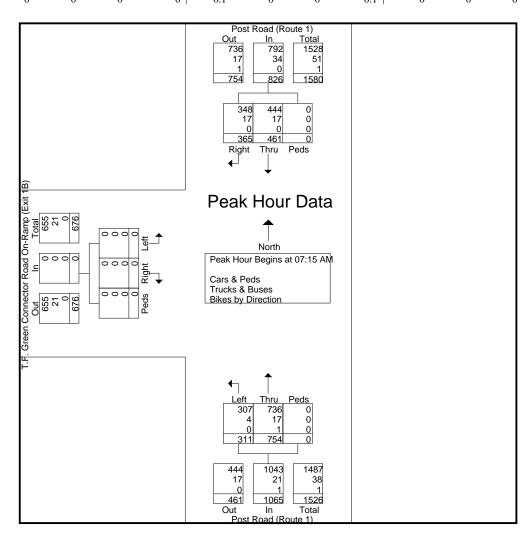
Client: Pare/J. Shevlin

File Name: 05462B Site Code: 05462 City, State: Warwick, RI Start Date : 9/21/2021

Page No

: 1

T.F. Green Connector Road On-Ramp Post Road (Route 1) Post Road (Route 1) (Exit 1B) From North From South From West Start Time Right Thru Peds App. Total Thru Left Peds App. Total Right Peds App. Total Int. Total Left Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 07:15 AM 07:15 AM 196 159 69 228 0 0 424 07:30 AM 131 197 278 0 227 0 0 0 0 505 96 81 07:45 AM 87 125 212 211 84 295 0 0 507 08:00 AM 0 81 110 0 191 187 77 264 0 0 455 Total Volume 365 461 0 826 754 311 0 1065 0 0 0 0 1891 % App. Total 70.8 29.2 0 PHF .903 .000 .910 <u>.89</u>3 .926 .000 .903 .000 .000 .000 .000 .932 .880 Cars & Peds 348 444 792 736 1043 1835 95.3 96.3 0 95.9 97.6 98.7 0 % Cars & Peds 0 97.9 0 0 0 97.0 Trucks & Buses 17 17 0 17 21 0 0 0 55 34 % Trucks & Buses 4.7 3.7 0 4.1 2.3 1.3 0 2.0 0 0 0 0 2.9 Bikes by Direction 0 0 0 0 0 0 0 0 0 1 0 1 0 0.1 0 % Bikes by Direction 0 0 0.1 0 0 0.1



N/S: Post Road (Route 1)

W: T.F. Green Connector Road On-Ramp

City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462B Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

		Road (Route 1 From North			Road (Route 1 From South		T.F. Green C	Connector Roamp (Exit 1B) From West	d On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
07:00 AM	99	67	0	147	53	0	0	0	0	366
07:15 AM	101	95	0	159	69	0	0	0	0	424
07:30 AM	96	131	0	197	81	0	0	0	0	505
07:45 AM	87	125	0	211	84	0	0	0	0	507
Total	383	418	0	714	287	0	0	0	0	1802
08:00 AM	81	110	0	187	77	0	0	0	0	455
08:15 AM	82	114	0	176	51	0	0	0	0	423
08:30 AM	68	130	0	189	61	0	0	0	1	449
08:45 AM	60	138	0	195	69	0	0	0	0	462
Total	291	492	0	747	258	0	0	0	1	1789
Grand Total	674	910	0	1461	545	0	0	0	1	3591
Apprch %	42.6	57.4	0	72.8	27.2	0	0	0	100	
Total %	18.8	25.3	0	40.7	15.2	0	0	0	0	
Cars & Peds	647	873	0	1420	536	0	0	0	1	3477
% Cars & Peds	96	95.9	0	97.2	98.3	0	0	0	100	96.8
Trucks & Buses	27	36	0	40	9	0	0	0	0	112
% Trucks & Buses	4	4	0	2.7	1.7	0	0	0	0	3.1
Bikes by Direction	0	1	0	1	0	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0	0	0	0	0	0.1

	]	Post Road From	` /			Post Road From	` /		T.F. Green		1B)	n-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis I	From 07:00	AM to 08:	45 AM - 1	Peak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	07:15 AN	Л									
07:15 AM	101	95	0	196	159	69	0	228	0	0	0	0	424
07:30 AM	96	131	0	227	197	81	0	278	0	0	0	0	505
07:45 AM	87	125	0	212	211	84	0	295	0	0	0	0	507
08:00 AM	81	110	0	191	187	77	0	264	0	0	0	0	455
Total Volume	365	461	0	826	754	311	0	1065	0	0	0	0	1891
% App. Total	44.2	55.8	0		70.8	29.2	0		0	0	0		
PHF	.903	.880	.000	.910	.893	.926	.000	.903	.000	.000	.000	.000	.932
Cars & Peds	348	444	0	792	736	307	0	1043	0	0	0	0	1835
% Cars & Peds	95.3	96.3	0	95.9	97.6	98.7	0	97.9	0	0	0	0	97.0
Trucks & Buses	17	17	0	34	17	4	0	21	0	0	0	0	55
% Trucks & Buses	4.7	3.7	0	4.1	2.3	1.3	0	2.0	0	0	0	0	2.9
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.1	0	0	0.1	0	0	0	0	0.1

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462BB Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds

				Groups Printed	I- Cars & Peus					
		Road (Route 1) From North			Road (Route 1) From South			onnector Road p (Exit 1B) om West	On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	84	179	0	238	69	0	0	0	0	570
04:15 PM	81	179	0	252	60	0	0	0	0	572
04:30 PM	74	159	0	279	50	0	0	0	1	563
04:45 PM	81	159	0	244	65	0	0	0	0	549
Total	320	676	0	1013	244	0	0	0	1	2254
05:00 PM	86	169	0	251	71	0	0	0	1	578
05:15 PM	75	174	0	232	54	0	0	0	0	535
05:30 PM	87	131	1	228	52	0	0	0	1	500
05:45 PM	86	146	0	209	58	0	0	0	0	499
Total	334	620	1	920	235	0	0	0	2	2112
Grand Total	654	1296	1	1933	479	0	0	0	3	4366
Apprch %	33.5	66.4	0.1	80.1	19.9	0	0	0	100	
Total %	15	29.7	0	44.3	11	0	0	0	0.1	

	]	Post Road From	` /			Post Road From	` /		T.F. Green		t 1B)	On-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 04:00	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:15 PM										
04:15 PM	81	179	0	260	252	60	0	312	0	0	0	0	572
04:30 PM	74	159	0	233	279	50	0	329	0	0	1	1	563
04:45 PM	81	159	0	240	244	65	0	309	0	0	0	0	549
05:00 PM	86	169	0	255	251	71	0	322	0	0	1	1	578
Total Volume	322	666	0	988	1026	246	0	1272	0	0	2	2	2262
% App. Total	32.6	67.4	0		80.7	19.3	0		0	0	100		
PHF	.936	.930	.000	.950	.919	.866	.000	.967	.000	.000	.500	.500	.978

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462BB Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Trucks & Buses

		Post Road (Route 1) From North Right Thru Peds			Road (Route 1 From South	)	Ran	onnector Road np (Exit 1B) rom West	l On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	1	3	0	2	1	0	0	0	0	7
04:15 PM	3	2	0	1	1	0	0	0	0	7
04:30 PM	1	1	0	0	0	0	0	0	0	2
04:45 PM	3	1	0	0	2	0	0	0	0	6
Total	8	7	0	3	4	0	0	0	0	22
05:00 PM	0	2	0	2	0	0	0	0	0	4
05:15 PM	3	0	0	3	1	0	0	0	0	7
05:30 PM	2	1	0	2	1	0	0	0	0	6
05:45 PM	2	1	0	4	0	0	0	0	0	7
Total	7	4	0	11	2	0	0	0	0	24
Grand Total	15	11	0	14	6	0	0	0	0	46
Apprch %	57.7	42.3	0	70	30	0	0	0	0	
Total %	32.6	23.9	0	30.4	13	0	0	0	0	

	I		(Route 1) North			Post Road From	` /	1	T.F. Gree	n Connecto (Exi From	t 1B)	n-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 04:00	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	05:00 PM	[									
05:00 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
05:15 PM	3	0	0	3	3	1	0	4	0	0	0	0	7
05:30 PM	2	1	0	3	2	1	0	3	0	0	0	0	6
05:45 PM	2	1	0	3	4	0	0	4	0	0	0	0	7_
Total Volume	7	4	0	11	11	2	0	13	0	0	0	0	24
% App. Total	63.6	36.4	0		84.6	15.4	0		0	0	0		
PHF	.583	.500	.000	.917	.688	.500	.000	.813	.000	.000	.000	.000	.857

N/S: Post Road (Route 1) W: T.F. Green Connector Road On-Ramp City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462BB Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Bikes by Direction

			GI	oups rimed-	bikes by Direc	LUUII				
		Road (Route 1 From North	1)	Post	Road (Route From South	1)	Ra	Connector Road Imp (Exit 1B) From West	d On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	1	0	0	0	0	0	1
04:30 PM	0	1	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0_
Total	0	1	0	1	0	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	1	0	0	0	0	0	2
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	50	0	50	0	0	0	0	0	

	I	Post Road From	` ,			Post Road From	(Route 1) South	)	T.F. Gree		t 1B)	On-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis l	From 04:00 l	PM to 05:4	45 PM - Pe	eak 1 of 1									
Peak Hour for Entire	Intersection	Begins at	04:00 PM										
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	1	0	0	1	0	0	0	0	2
% App. Total	0	100	0		100	0	0		0	0	0		
PHF	.000	.250	.000	.250	.250	.000	.000	.250	.000	.000	.000	.000	.500

# Transportation Data Corporation

Mario Perone, mperonel@verizon.net tel (781) 587-0086 cell (781) 439-4999

N/S: Post Road (Route 1)

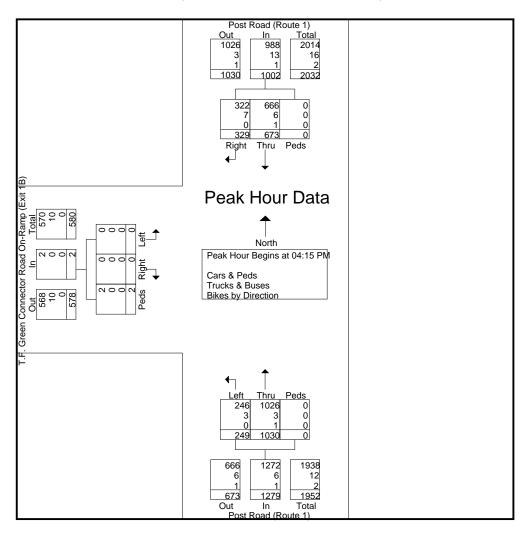
Client: Pare/J. Shevlin

File Name: 05462BB W: T.F. Green Connector Road On-Ramp Site Code: 05462 City, State: Warwick, RI Start Date : 9/21/2021

Page No

: 1

T.F. Green Connector Road On-Ramp Post Road (Route 1) Post Road (Route 1) (Exit 1B) From North From South From West Thru Start Time Right Peds App. Total Thru Left Peds App. Total Right Peds App. Total Int. Total Left Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 04:15 PM 04:15 PM 181 265 254 61 315 0 0 580 236 04:30 PM 75 279 0 329 0 161 0 50 0 1 566 1 04:45 PM 84 160 244 244 67 311 0 0 555 05:00 PM 86 253 71 582 171 0 257 324 0 Total Volume 329 673 0 1002 1030 249 0 1279 0 0 2 2 2283 % App. Total 67.2 80.5 19.5 100 PHF .956 .930 .000 .945 .923 .877 .000 .972 .000 .000 .500 .981 .500 Cars & Peds 322 988 1026 1272 2262 666 0 97.9 99.0 0 100 100 % Cars & Peds 98.6 99.6 98.8 0 99.5 0 0 99.1 0 0 19 Trucks & Buses 6 13 3 3 6 0 0 0 2.1 % Trucks & Buses 0.9 0 1.3 0.3 1.2 0 0.5 0 0 0 0 0.8 Bikes by Direction 0 0 0 0 0 0 0 0 2 1 1 0 % Bikes by Direction 0 0.1 0.1 0.1 0.1 0 0 0.1



N/S: Post Road (Route 1)

W: T.F. Green Connector Road On-Ramp

City, State: Warwick, RI Client: Pare/J. Shevlin

File Name: 05462BB Site Code : 05462

Start Date : 9/21/2021

Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

		Road (Route 1) From North			oad (Route 1) com South		T.F. Green Co Ram	onnector Road p (Exit 1B) om West	On-	
Start Time	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	Int. Total
04:00 PM	85	182	0	240	70	0	0	0	0	577
04:15 PM	84	181	0	254	61	0	0	0	0	580
04:30 PM	75	161	0	279	50	0	0	0	1	566
04:45 PM	84	160	0	244	67	0	0	0	0	555
Total	328	684	0	1017	248	0	0	0	1	2278
05:00 PM	86	171	0	253	71	0	0	0	1	582
05:15 PM	78	174	0	235	55	0	0	0	0	542
05:30 PM	89	132	1	230	53	0	0	0	1	506
05:45 PM	88	147	0	213	58	0	0	0	0	506
Total	341	624	1	931	237	0	0	0	2	2136
Grand Total	669	1308	1	1948	485	0	0	0	3	4414
Apprch %	33.8	66.1	0.1	80.1	19.9	0	0	0	100	
Total %	15.2	29.6	0	44.1	11	0	0	0	0.1	
Cars & Peds	654	1296	1	1933	479	0	0	0	3	4366
% Cars & Peds	97.8	99.1	100	99.2	98.8	0	0	0	100	98.9
Trucks & Buses	15	11	0	14	6	0	0	0	0	46
% Trucks & Buses	2.2	0.8	0	0.7	1.2	0	0	0	0	1
Bikes by Direction	0	1	0	1	0	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0	0	0	0	0	0

		Post Road From	(Route 1) North			Post Road From	` ′		T.F. Green		t 1B)	n-Ramp	
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis F	From 04:00	) PM to 05:	45 PM - P	eak 1 of 1									
Peak Hour for Entire	Intersectio	n Begins a	t 04:15 PM	1									
04:15 PM	84	181	0	265	254	61	0	315	0	0	0	0	580
04:30 PM	75	161	0	236	279	50	0	329	0	0	1	1	566
04:45 PM	84	160	0	244	244	67	0	311	0	0	0	0	555
05:00 PM	86	171	0	257	253	71	0	324	0	0	1	1	582
Total Volume	329	673	0	1002	1030	249	0	1279	0	0	2	2	2283
% App. Total	32.8	67.2	0		80.5	19.5	0		0	0	100		
PHF	.956	.930	.000	.945	.923	.877	.000	.972	.000	.000	.500	.500	.981
Cars & Peds	322	666	0	988	1026	246	0	1272	0	0	2	2	2262
% Cars & Peds	97.9	99.0	0	98.6	99.6	98.8	0	99.5	0	0	100	100	99.1
Trucks & Buses	7	6	0	13	3	3	0	6	0	0	0	0	19
% Trucks & Buses	2.1	0.9	0	1.3	0.3	1.2	0	0.5	0	0	0	0	0.8
Bikes by Direction	0	1	0	1	1	0	0	1	0	0	0	0	2
% Bikes by Direction	0	0.1	0	0.1	0.1	0	0	0.1	0	0	0	0	0.1

Appendix C
Background Growth Data

WoodSpring Suites TIA Warwick, RI General Background Growth Rate Pare Project No. 21175.00 October 7, 2021



0.19%

0.50%

### Post Road (US-1) Warwick Census Data

Used population data to correlate with vehicle traffic,

2018 80,847
2019 81,004
Years 1

ANNUAL GROWTH RATE

Say

Appendix D	
Trip Generation Calculations	

WoodSpring Suites TIA Warwick, RI General Background Growth Rate Pare Project No. 21175.00 October 7, 2021



### Condominiums

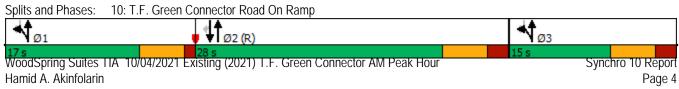
Land Use Code 220: Multifamily Housing (Low-Rise) Average Vehicle Trip Ends vs. Dwelling Units

Proposed: Dwelling Units	Onits	122	Units
On a: Weekday			
Average Rate:	7.99 * 122 =	975	
Fitted Curve Equation:	(10.84*122)-423.51 =	899	
Trips Entering	50% * 975	487	
Trips Exiting	50% * 975	487	
		975	Trips
AM			
On a: Weekday Peak Hour of Generator			
Average Rate:	0.53 * 122 =	65	
Fitted Curve Equation:	e((0.86*ln(122))+0.12) =	70	
Trips Entering	53% * 70 =	37	
Trips Exiting	47% * 70 =	33	
	_	70	Trips
PM			
On a: Weekday Peak Hour of Generator			
Average Rate:	.60 * 122 =	73	
Fitted Curve Equation:	e((0.95*ln(122))-0.27) =	73	
Trips Entering	58% * 73 =	43	
Trips Exiting	42% * 73 =	31	
		74	Trips

Annondiy E
Appendix E
Intersection Capacity Analysis Results

	۶	•	4	<b>†</b>	ļ	4				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			ች	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	342	830	508	402				
Future Volume (vph)	0	0	342	830	508	402				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt						0.850				
Flt Protected			0.950							
Satd. Flow (prot)	0	0	1787	3539	3471	1538				
Flt Permitted			0.950							
Satd. Flow (perm)	0	0	1787	3539	3471	1538				
Right Turn on Red		Yes				Yes				
Satd. Flow (RTOR)										
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.90	0.90	0.91	0.91				
Heavy Vehicles (%)	2%	2%	1%	2%	4%	5%				
Adj. Flow (vph)	0	0	380	922	558	442				
Shared Lane Traffic (%)										
Lane Group Flow (vph)	0	0	380	922	558	442				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0	<u> </u>		12	12	<u> </u>				
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15			9				
Number of Detectors			1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex	CI+Ex	CI+Ex				
Detector 1 Channel										
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)				94	94					
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel										
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2		1	3		
Permitted Phases						123				
Detector Phase			13	123	2	123				
Switch Phase										

	۶	•	•	<b>†</b>	<b>↓</b>	4		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3
Minimum Initial (s)					10.0		6.0	6.0
Minimum Split (s)					16.0		11.0	12.0
Total Split (s)					28.0		17.0	15.0
Total Split (%)					46.7%		28%	25%
Maximum Green (s)					22.0		12.0	9.0
Yellow Time (s)					4.0		4.0	4.0
All-Red Time (s)					2.0		1.0	2.0
Lost Time Adjust (s)					0.0			
Total Lost Time (s)					6.0			
Lead/Lag					Lag		Lead	
Lead-Lag Optimize?					Yes		Yes	
Vehicle Extension (s)					3.0		3.0	3.0
Recall Mode					C-Max		None	None
Walk Time (s)					7.0			
Flash Dont Walk (s)					11.0			
Pedestrian Calls (#/hr)					0			
Act Effct Green (s)			26.9	60.0	22.1	60.0		
Actuated g/C Ratio			0.45	1.00	0.37	1.00		
v/c Ratio			0.47	0.26	0.44	0.29		
Control Delay			12.7	0.2	15.6	0.5		
Queue Delay			2.8	0.0	0.0	0.0		
Total Delay			15.5	0.2	15.6	0.5		
LOS			В	Α	В	Α		
Approach Delay				4.6	8.9			
Approach LOS				Α	Α			
Queue Length 50th (ft)			73	0	77	0		
Queue Length 95th (ft)			127	0	116	0		
Internal Link Dist (ft)	194			151	430			
Turn Bay Length (ft)								
Base Capacity (vph)			804	3486	1278	1515		
Starvation Cap Reductn			305	0	0	0		
Spillback Cap Reductn			0	0	0	0		
Storage Cap Reductn			0	0	0	0		
Reduced v/c Ratio			0.76	0.26	0.44	0.29		
Intersection Summary								
Area Type:	Other							
Cycle Length: 60								
Actuated Cycle Length: 60								
Offset: 0 (0%), Referenced t	o phase 2:I	NBSB, St	art of Gre	een				
Natural Cycle: 40								
Control Type: Actuated-Cool	rdinated							
Maximum v/c Ratio: 0.47								
Intersection Signal Delay: 6.	5				ntersection			
Intersection Capacity Utilizat	ion 73.5%			[(	CU Level o	of Service	e D	
Analysis Period (min) 15								



Page 4

Lane Group
Cane Configurations
Traffic Volume (vph) 268 178 0 908 528 0 Future Volume (vph) 268 178 0 908 528 0 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 1900 Lane Util. Factor 0.97 1.00 1.00 0.95 0.95 1.00 Frt 0.850 Flt Protected 0.950 Satd. Flow (prot) 3467 1583 0 3505 3471 0 Flt Permitted 0.950 Satd. Flow (perm) 3467 1583 0 3505 3471 0 Right Turn on Red No Yes Satd. Flow (RTOR) Link Speed (mph) 30 30 30 Link Distance (ft) 257 106 231 Travel Time (s) 5.8 2.4 5.3 Peak Hour Factor 0.86 0.86 0.90 0.90 0.90 Heavy Vehicles (%) 1% 2% 0% 3% 4% 0% Adj. Flow (vph) 312 207 0 1009 587 0 Enter Blocked Intersection No No No No No No Lane Alignment Left Right Left Left Left Right Median Width(ft) 24 0 0 Link Offset(ft) 24 0 0 0 Link Offset(ft) 24 0 0 0
Future Volume (vph) 268 178 0 908 528 0 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 1900 1900 Lane Util. Factor 0.97 1.00 1.00 0.95 0.95 1.00 Frt 0.850
Ideal Flow (vphpl)         1900         1900         1900         1900         1900         1900           Lane Util. Factor         0.97         1.00         1.00         0.95         0.95         1.00           Frt         0.850         0.850         0.950
Lane Util. Factor   0.97   1.00   1.00   0.95   0.95   1.00
Frt         0.850           Flt Protected         0.950           Satd. Flow (prot)         3467         1583         0         3505         3471         0           Flt Permitted         0.950         0.90         <
Fit Protected         0.950           Satd. Flow (prot)         3467         1583         0         3505         3471         0           Fit Permitted         0.950
Satd. Flow (prot)         3467         1583         0         3505         3471         0           Flt Permitted         0.950         0.950         0.950         0.950         0.950         0.950         0.950         0.90         0
Fit Permitted         0.950           Satd. Flow (perm)         3467         1583         0         3505         3471         0           Right Turn on Red         No         Yes           Satd. Flow (RTOR)         Link Speed (mph)         30         30         30           Link Distance (ft)         257         106         231           Travel Time (s)         5.8         2.4         5.3           Peak Hour Factor         0.86         0.86         0.90         0.90         0.90           Heavy Vehicles (%)         1%         2%         0%         3%         4%         0%           Adj. Flow (vph)         312         207         0         1009         587         0           Shared Lane Traffic (%)         Lane Group Flow (vph)         312         207         0         1009         587         0           Enter Blocked Intersection         No         No         No         No         No         No           Lane Alignment         Left         Right         Left         Left         Right           Median Width(ft)         24         0         0         0           Link Offset(ft)         0         0
Satd. Flow (perm)         3467         1583         0         3505         3471         0           Right Turn on Red         No         Yes           Satd. Flow (RTOR)         Ves         Ves           Link Speed (mph)         30         30         30           Link Distance (ft)         257         106         231           Travel Time (s)         5.8         2.4         5.3           Peak Hour Factor         0.86         0.86         0.90         0.90         0.90           Heavy Vehicles (%)         1%         2%         0%         3%         4%         0%           Adj. Flow (vph)         312         207         0         1009         587         0           Shared Lane Traffic (%)         Vertical Verti
Right Turn on Red       No       Yes         Satd. Flow (RTOR)       30       30       30         Link Speed (mph)       30       30       30         Link Distance (ft)       257       106       231         Travel Time (s)       5.8       2.4       5.3         Peak Hour Factor       0.86       0.86       0.90       0.90       0.90         Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Satd. Flow (RTOR)         Link Speed (mph)       30       30       30         Link Distance (ft)       257       106       231         Travel Time (s)       5.8       2.4       5.3         Peak Hour Factor       0.86       0.86       0.90       0.90       0.90         Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Link Speed (mph)       30       30       30         Link Distance (ft)       257       106       231         Travel Time (s)       5.8       2.4       5.3         Peak Hour Factor       0.86       0.86       0.90       0.90       0.90         Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Link Distance (ft)       257       106       231         Travel Time (s)       5.8       2.4       5.3         Peak Hour Factor       0.86       0.86       0.90       0.90       0.90         Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Travel Time (s)       5.8       2.4       5.3         Peak Hour Factor       0.86       0.86       0.90       0.90       0.90       0.90         Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Peak Hour Factor         0.86         0.86         0.90         0.90         0.90         0.90           Heavy Vehicles (%)         1%         2%         0%         3%         4%         0%           Adj. Flow (vph)         312         207         0         1009         587         0           Shared Lane Traffic (%)         Shared Lane Traffic (%)         0         1009         587         0           Lane Group Flow (vph)         312         207         0         1009         587         0           Enter Blocked Intersection         No         No         No         No         No         No           Lane Alignment         Left         Right         Left         Left         Left         Right           Median Width(ft)         24         0         0         0         0         Left
Heavy Vehicles (%)       1%       2%       0%       3%       4%       0%         Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)       Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Adj. Flow (vph)       312       207       0       1009       587       0         Shared Lane Traffic (%)         Lane Group Flow (vph)       312       207       0       1009       587       0         Enter Blocked Intersection       No       No       No       No       No       No         Lane Alignment       Left       Right       Left       Left       Left       Right         Median Width(ft)       24       0       0         Link Offset(ft)       0       0       0
Shared Lane Traffic (%) Lane Group Flow (vph) 312 207 0 1009 587 0 Enter Blocked Intersection No No No No No No Lane Alignment Left Right Left Left Right Median Width(ft) 24 0 0 Link Offset(ft) 0 0 0
Lane Group Flow (vph)         312         207         0         1009         587         0           Enter Blocked Intersection         No         No         No         No         No         No         No           Lane Alignment         Left         Right         Left         Left         Left         Right           Median Width(ft)         24         0         0         0           Link Offset(ft)         0         0         0
Enter Blocked Intersection No No No No No No Lane Alignment Left Right Left Left Left Right Median Width(ft) 24 0 0 Link Offset(ft) 0 0 0
Lane AlignmentLeftRightLeftLeftRightMedian Width(ft)2400Link Offset(ft)000
Median Width(ft)         24         0         0           Link Offset(ft)         0         0         0
Link Offset(ft) 0 0 0
Crosswalk Width(ft) 16 16 16
Two way Left Turn Lane
Headway Factor 1.00 1.00 1.00 1.00 1.00 1.00
Turning Speed (mph) 15 9 15 9
Number of Detectors 1 1 2 2
Detector Template Left Right Thru Thru
Leading Detector (ft) 20 20 100 100
Trailing Detector (ft) 0 0 0
Detector 1 Position(ft) 0 0 0
Detector 1 Size(ft) 20 20 6 6
Detector 1 Type CI+Ex CI+Ex CI+Ex
Detector 1 Channel
Detector 1 Extend (s) 0.0 0.0 0.0 0.0
Detector 1 Queue (s) 0.0 0.0 0.0 0.0
Detector 1 Delay (s) 0.0 0.0 0.0 0.0 0.0
Detector 2 Position(ft)  94  94
Detector 2 Size(ft)  6  6
Detector 2 Type CI+Ex CI+Ex
Detector 2 Channel
Detector 2 Extend (s) 0.0 0.0
Turn Type Prot custom NA NA
Protected Phases 3 13 12 2 1
Permitted Phases
Detector Phase 3 13 12 2
Switch Phase

7. 1.1 . Green oon	HOOLOI IX	oud O	II I (all	יף				
	٠	*	1	†	<b>↓</b>	4		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	
Minimum Initial (s)	6.0				10.0		6.0	
Minimum Split (s)	12.0				16.0		11.0	
Total Split (s)	15.0				28.0		17.0	
Total Split (%)	25.0%				46.7%		28%	
Maximum Green (s)	9.0				22.0		12.0	
Yellow Time (s)	4.0				4.0		4.0	
All-Red Time (s)	2.0				2.0		1.0	
Lost Time Adjust (s)	0.0				0.0			
Total Lost Time (s)	6.0				6.0			
Lead/Lag					Lag		Lead	
Lead-Lag Optimize?					Yes		Yes	
Vehicle Extension (s)	3.0				3.0		3.0	
Recall Mode	None				C-Max		None	
Walk Time (s)	7.0				7.0		7.0	
Flash Dont Walk (s)	11.0				11.0		11.0	
Pedestrian Calls (#/hr)	0				0		0	
Act Effct Green (s)	8.7	26.7		40.3	22.3			
Actuated g/C Ratio	0.14	0.44		0.67	0.37			
v/c Ratio	0.62	0.29		0.43	0.46			
Control Delay	29.9	11.9		5.3	4.7			
Queue Delay	0.3	0.0		0.0	0.1			
Total Delay	30.1	11.9		5.3	4.8			
LOS	С	В		А	Α			
Approach Delay	22.9			5.3	4.8			
Approach LOS	С			Α	Α			
Queue Length 50th (ft)	55	45		72	14			
Queue Length 95th (ft)	86	80		102	20			
Internal Link Dist (ft)	177			26	151			
Turn Bay Length (ft)								
Base Capacity (vph)	520	686		2351	1287			
Starvation Cap Reductn	0	0		0	64			
Spillback Cap Reductn	23	0		0	0			
Storage Cap Reductn	0	0		0	0			
Reduced v/c Ratio	0.63	0.30		0.43	0.48			
Intersection Summary								
Area Type:	Other							
Cycle Length: 60								
Actuated Cycle Length: 60		NDOD O						
Offset: 0 (0%), Referenced	I to phase 2:1	NBSB, St	art of Gre	een				
Natural Cycle: 40								
Control Type: Actuated-Co	ordinated							
Maximum v/c Ratio: 0.62	0 F			1.	atoros alles	100 4		
Intersection Signal Delay:					ntersection		D	
Intersection Capacity Utiliz	allUH /3.5%			10	CU Level o	n Selvice	ש	
Analysis Period (min) 15								

Splits and Phases: 7: T.F. Green Connector Road Off Ramp

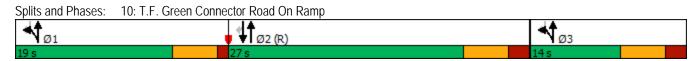


Page 2

	۶	•	4	<b>†</b>	ļ	4				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			ች	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	274	1133	741	362				
Future Volume (vph)	0	0	274	1133	741	362				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt						0.850				
Flt Protected			0.950							
Satd. Flow (prot)	0	0	1787	3610	3574	1583				
Flt Permitted			0.950							
Satd. Flow (perm)	0	0	1787	3610	3574	1583				
Right Turn on Red		Yes				Yes				
Satd. Flow (RTOR)										
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.97	0.97	0.94	0.94				
Heavy Vehicles (%)	2%	2%	1%	0%	1%	2%				
Adj. Flow (vph)	0	0	282	1168	788	385				
Shared Lane Traffic (%)										
Lane Group Flow (vph)	0	0	282	1168	788	385				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0			12	12					
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15			9				
Number of Detectors			1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex	CI+Ex	CI+Ex				
Detector 1 Channel										
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)				94	94					
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel										
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2		1	3		
Permitted Phases						123				
Detector Phase			13	123	2	123				
Switch Phase										

Lane Group		۶	•	•	†	<b>↓</b>	4			
Minimum Spilit (s)	Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3	
Total Split (s)						10.0		6.0	6.0	
Total Split (%)	Minimum Split (s)					16.0		11.0	12.0	
Total Spilit (%)						27.0		19.0	14.0	
Maximum Green (s)       21.0       14.0       8.0         Yellow Time (s)       4.0       4.0       4.0         Lost Time Adjust (s)       0.0       1.0       2.0         Total Lost Time (s)       6.0       Lead       Lead         Lead/Lag       Lag       Lead       Lead         Lead/Lag Optimize?       Yes       Yes       Yes         Vehicle Extension (s)       3.0       3.0       3.0       3.0         Recall Mode       C-Max       None       None       None         Walk Time (s)       7.0       Flash Dont Walk (s)       11.0       None       None         Pedestrian Calls (#/hr)       0       None       None       None       None       None         Walk Time (s)       7.0       11.0       None						45.0%		32%	23%	
All-Red Time (s)						21.0		14.0	8.0	
Lost Time Adjust (s)	Yellow Time (s)					4.0		4.0	4.0	
Lost Time Adjust (s)						2.0		1.0	2.0	
Total Lost Time (s)						0.0				
Lead/Lag         Lag         Lead           Lead-Lag Optimize?         Yes         Yes           Vehicle Extension (s)         3.0         3.0         3.0           Recall Mode         C-Max         None         None           Walk Time (s)         7.0         Flash Dont Walk (s)         11.0         Pedestrian Calls (#/hr)         0           Pedestrian Calls (#/hr)         0         0         Act Effet Green (s)         27.8         60.0         21.2         60.0           Act green (s)         27.8         60.0         21.2         60.0         60.0           Actuated g/C Ratio         0.46         1.00         0.35         1.00         40.0         1.0         40.0						6.0				
Lead-Lag Optimize? Vehicle Extension (s) 3.0 3.0 3.0 3.0 3.0 8.0 Recall Mode C-Max Walk Time (s) 7.0 Flash Dont Walk (s) Pedestrian Calls (#/hr) 0 Act Effet Green (s)						Lag		Lead		
Vehicle Extension (s)   3.0   3.0   3.0   3.0   3.0   Recall Mode   C-Max   None   N								Yes		
Walk Time (s) 7.0 Flash Dont Walk (s) 11.0 Pedestrian Calls (#/hr) 0 Act Effet Green (s) 27.8 60.0 21.2 60.0 Actuated g/C Ratio 0.46 1.00 0.35 1.00 w/c Ratio 0.34 0.32 0.62 0.24 Control Delay 7.8 0.2 18.8 0.4 Control Delay 1.5 0.0 0.0 0.0 Total Delay 9.3 0.2 18.8 0.4 LOS A A B A B AAPProach Delay 2.0 12.8 Approach Delay 2.0 12.8 Approach LOS A B B AAPProach LOS A						3.0		3.0	3.0	
Walk Time (s) 7.0 Flash Dont Walk (s) 11.0 Pedestrian Calls (#/hr) 0 Act Effet Green (s) 27.8 60.0 21.2 60.0 Actuated g/C Ratio 0.46 1.00 0.35 1.00 w/c Ratio 0.34 0.32 0.62 0.24 Control Delay 7.8 0.2 18.8 0.4 Control Delay 1.5 0.0 0.0 0.0 Total Delay 9.3 0.2 18.8 0.4 LOS A A B A B A Approach Delay 2.0 12.8 Approach Delay 2.0 12.8 Approach LOS A B B Queue Length 50th (fit) 38 0 122 0 Queue Length 95th (fit) m62 m0 175 0 Internal Link Dist (ft) 194 151 430 Turn Bay Length (ft) Base Capacity (vph) 833 3563 1263 1562 Starvation Cap Reductn 374 0 0 0 Spillback Cap Reductn 0 0 0 0 Storage Cap Reductn 0 0 0 0 Reduced v/c Ratio 0.61 0.33 0.62 0.25 Intersection Summary  Area Type: Other Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62										
Section   Calls (#/hr)										
Pedestrian Calls (#/hr)	` '									
Act Effet Green (s) 27.8 60.0 21.2 60.0 Actuated g/C Ratio 0.46 1.00 0.35 1.00 V/C Ratio 0.34 0.32 0.62 0.24 Control Delay 7.8 0.2 18.8 0.4 Queue Delay 1.5 0.0 0.0 0.0 Total Delay 9.3 0.2 18.8 0.4 LOS A A B A B A B A A B B A A A B B A A A B B A A A B B A A A B B A A B B A A B B A A B B A B A A B B A B A A B B A B A A B B A B A B B A B A B B A B A B B A B B A B B A B B A B B A B B A B B A B B A B	, ,									
Actuated g/C Ratio 0.46 1.00 0.35 1.00  v/c Ratio 0.34 0.32 0.62 0.24  Control Delay 7.8 0.2 18.8 0.4  Queue Delay 1.5 0.0 0.0 0.0  Total Delay 9.3 0.2 18.8 0.4  LOS A A B A  Approach Delay 2.0 12.8  Approach LOS A B  Queue Length 50th (ft) 38 0 122 0  Queue Length 95th (ft) m62 m0 175 0  Internal Link Dist (ft) 194 151 430  Turn Bay Length (ft)  Base Capacity (vph) 833 3563 1263 1562  Starvation Cap Reductn 374 0 0 0  Spillback Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Coffset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62				27.8	60.0		60.0			
V/c Ratio	, ,									
Control Delay 7.8 0.2 18.8 0.4  Queue Delay 1.5 0.0 0.0 0.0  Total Delay 9.3 0.2 18.8 0.4  LOS A A A B A  Approach Delay 2.0 12.8  Approach LOS A B  Queue Length 50th (ft) 38 0 122 0  Queue Length 95th (ft) m62 m0 175 0  Internal Link Dist (ft) 194 151 430  Turn Bay Length (ft)  Base Capacity (vph) 833 3563 1263 1562  Starvation Cap Reductn 374 0 0 0  Spillback Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Queue Delay       1.5       0.0       0.0       0.0         Total Delay       9.3       0.2       18.8       0.4         LOS       A       A       B       A         Approach Delay       2.0       12.8         Approach LOS       A       B       B         Oueue Length 50th (ft)       38       0       122       0         Oueue Length 95th (ft)       m62       m0       175       0         Internal Link Dist (ft)       194       151       430         Turn Bay Length (ft)       833       3563       1263       1562         Starvation Cap Reductn       374       0       0       0         Spillback Cap Reductn       0       0       0       0         Storage Cap Reductn       0       0       0       0         Reduced v/c Ratio       0.61       0.33       0.62       0.25         Intersection Summary         Area Type: Other         Cycle Length: 60       Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green         Natural Cycle: 40       Ontrol Type: Actuated-Coordinated         Maximum v/c Ratio: 0.62										
Total Delay	<b>J</b>									
A										
Approach Delay 2.0 12.8 Approach LOS A B Queue Length 50th (ft) 38 0 122 0 Queue Length 95th (ft) m62 m0 175 0 Internal Link Dist (ft) 194 151 430 Turn Bay Length (ft) Base Capacity (vph) 833 3563 1263 1562 Starvation Cap Reductn 374 0 0 0 Spillback Cap Reductn 0 0 0 0 0 Storage Cap Reductn 0 0 0 0 0 Storage Cap Reductn 0 0 0 0 0 Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62										
Approach LOS  Queue Length 50th (ft)  38  0  122  0  Queue Length 95th (ft)  m62  m0  175  0  Internal Link Dist (ft)  194  151  430  Turn Bay Length (ft)  Base Capacity (vph)  833  3563  1263  1562  Starvation Cap Reductn  374  0  0  0  Spillback Cap Reductn  0  0  0  Storage Cap Reductn  0  0  0  Storage Cap Reductn  0  0  0  0  Reduced v/c Ratio  0  0  0  0  Intersection Summary  Area Type:  Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62						12.8				
Queue Length 50th (ft)       38       0       122       0         Queue Length 95th (ft)       m62       m0       175       0         Internal Link Dist (ft)       194       151       430         Turn Bay Length (ft)       Base Capacity (vph)       833       3563       1263       1562         Starvation Cap Reductn       374       0       0       0         Spillback Cap Reductn       0       0       0         Storage Cap Reductn       0       0       0         Reduced v/c Ratio       0.61       0.33       0.62       0.25         Intersection Summary         Area Type:       Other         Cycle Length: 60         Actuated Cycle Length: 60         Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green         Natural Cycle: 40         Control Type: Actuated-Coordinated         Maximum v/c Ratio: 0.62										
Queue Length 95th (ft)       m62       m0       175       0         Internal Link Dist (ft)       194       151       430         Turn Bay Length (ft)       833       3563       1263       1562         Starvation Cap Reductn       374       0       0       0         Spillback Cap Reductn       0       0       0       0         Storage Cap Reductn       0       0       0       0         Reduced v/c Ratio       0.61       0.33       0.62       0.25         Intersection Summary         Area Type:       Other         Cycle Length: 60         Actuated Cycle Length: 60         Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green         Natural Cycle: 40         Control Type: Actuated-Coordinated         Maximum v/c Ratio: 0.62				38			0			
Internal Link Dist (ft) 194 151 430  Turn Bay Length (ft)  Base Capacity (vph) 833 3563 1263 1562  Starvation Cap Reductn 374 0 0 0  Spillback Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Turn Bay Length (ft)  Base Capacity (vph) 833 3563 1263 1562  Starvation Cap Reductn 374 0 0 0  Spillback Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0  Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62		194								
Base Capacity (vph) 833 3563 1263 1562  Starvation Cap Reductn 374 0 0 0  Spillback Cap Reductn 0 0 0 0  Storage Cap Reductn 0 0 0 0 0  Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Starvation Cap Reductn 374 0 0 0 0 Spillback Cap Reductn 0 0 0 0 0 Storage Cap Reductn 0 0 0 0 0 Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62				833	3563	1263	1562			
Spillback Cap Reductn 0 0 0 0 0 Storage Cap Reductn 0 0 0 0 0 Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40 Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Storage Cap Reductn 0 0 0 0 0 Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40 Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62				0	0	0				
Reduced v/c Ratio 0.61 0.33 0.62 0.25  Intersection Summary  Area Type: Other  Cycle Length: 60  Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Area Type: Other Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62				0.61	0.33	0.62	0.25			
Cycle Length: 60 Actuated Cycle Length: 60 Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62	Intersection Summary									
Actuated Cycle Length: 60  Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62		Other								
Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green  Natural Cycle: 40  Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62										
Natural Cycle: 40 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.62										
Control Type: Actuated-Coordinated  Maximum v/c Ratio: 0.62		to phase 2:1	NBSB, St	art of Gre	een					
Maximum v/c Ratio: 0.62										
		ordinated								
Intersection Signal Delay: 6.8 Intersection LOS: A	Maximum v/c Ratio: 0.62									
	Intersection Signal Delay: 6									
Intersection Capacity Utilization 78.3% ICU Level of Service D		ation 78.3%			[(	CU Level o	of Service	D		
Analysis Period (min) 15	Analysis Period (min) 15									

m Volume for 95th percentile queue is metered by upstream signal.



	۶	•	•	<b>†</b>	ļ	✓	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Lane Configurations	ሻሻ	7		<b>^</b>	<b>^</b>		
Traffic Volume (vph)	460	284	0	932	751	0	
Future Volume (vph)	460	284	0	932	751	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	1.00	
Frt	0.77	0.850	1.00	0.70	0.70	1.00	
Flt Protected	0.950	0.000					
Satd. Flow (prot)	3502	1454	0	3574	3574	0	
Flt Permitted	0.950	1 10 1	· ·	0071	0071		
Satd. Flow (perm)	3502	1454	0	3574	3574	0	
Right Turn on Red	2002	No	· ·	0071	0071	Yes	
Satd. Flow (RTOR)		110				100	
Link Speed (mph)	30			30	30		
Link Distance (ft)	257			106	231		
Travel Time (s)	5.8			2.4	5.3		
Peak Hour Factor	0.95	0.95	0.90	0.96	0.94	0.90	
Heavy Vehicles (%)	0.73	0.75	0.70	1%	1%	0%	
Parking (#/hr)	070	0	070	1 70	1 70	070	
Adj. Flow (vph)	484	299	0	971	799	0	
Shared Lane Traffic (%)	404	211	U	77 1	177	U	
Lane Group Flow (vph)	484	299	0	971	799	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	24	Right	LCII	0	0	Rigitt	
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane	10			10	10		
Headway Factor	1.00	1.14	1.00	1.00	1.00	1.00	
Turning Speed (mph)	1.00	9	1.00	1.00	1.00	9	
Number of Detectors	1	1	13	2	2	7	
Detector Template	Left	Right		Thru	Thru		
Leading Detector (ft)	20	20		100	100		
Trailing Detector (ft)	0	0		0	0		
Detector 1 Position(ft)	0	0		0	0		
Detector 1 Size(ft)	20	20		6	6		
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		
Detector 1 Channel	CI+EX	CI+EX		CI+EX	CI+EX		
	0.0	0.0		0.0	0.0		
Detector 1 Extend (s)		0.0		0.0			
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		
Detector 2 Position(ft)				94	94		
Detector 2 Size(ft)				6 CL Ev	6 CL Ev		
Detector 2 Type				CI+Ex	CI+Ex		
Detector 2 Channel				0.0	0.0		
Detector 2 Extend (s)	Dest	au at a ma		0.0	0.0		
Turn Type		custom		NA 1.2	NA		1
Protected Phases	3	1 3		12	2		1
Permitted Phases	_	1.0		1.0	_		
Detector Phase	3	13		12	2		

	۶	•	4	<b>†</b>	<b>↓</b>	4		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	
Switch Phase								
Minimum Initial (s)	6.0				10.0		6.0	
Minimum Split (s)	12.0				16.0		11.0	
Total Split (s)	14.0				27.0		19.0	
Total Split (%)	23.3%				45.0%		32%	
Maximum Green (s)	8.0				21.0		14.0	
Yellow Time (s)	4.0				4.0		4.0	
All-Red Time (s)	2.0				2.0		1.0	
Lost Time Adjust (s)	0.0				0.0			
Total Lost Time (s)	6.0				6.0			
Lead/Lag					Lag		Lead	
Lead-Lag Optimize?					Yes		Yes	
Vehicle Extension (s)	3.0				3.0		3.0	
Recall Mode	None				C-Max		None	
Walk Time (s)	7.0				7.0		7.0	
Flash Dont Walk (s)	11.0				11.0		11.0	
Pedestrian Calls (#/hr)	0				0		0	
Act Effct Green (s)	8.0	27.8		41.0	21.2			
Actuated g/C Ratio	0.13	0.46		0.68	0.35			
v/c Ratio	1.04	0.44		0.40	0.63			
Control Delay	81.7	13.5		4.7	5.8			
Queue Delay	0.0	0.0		0.0	0.0			
Total Delay	81.7	13.5		4.7	5.8			
LOS	F	В		Α	A			
Approach Delay	55.6			4.7	5.8			
Approach LOS	E			Α	A			
Queue Length 50th (ft)	~100	68		63	16			
Queue Length 95th (ft)	#182	124		89	28			
Internal Link Dist (ft)	177			26	151			
Turn Bay Length (ft)								
Base Capacity (vph)	466	678		2397	1264			
Starvation Cap Reductn	0	0		0	0			
Spillback Cap Reductn	0	0		0	0			
Storage Cap Reductn	0	0		0	0			
Reduced v/c Ratio	1.04	0.44		0.41	0.63			
Intersection Summary								
Area Type:	Other							
Cycle Length: 60								
Actuated Cycle Length: 60								
Offset: 0 (0%), Referenced		NBSB. St	art of Gre	en				
Natural Cycle: 50	p 200 211							
Control Type: Actuated-Co	ordinated							
Maximum v/c Ratio: 1.04	atou							
Intersection Signal Delay: 2	20.7			Ir	ntersection	LOS: C		
Intersection Capacity Utilization					CU Level o		D	
Analysis Period (min) 15	2.7011 70.070				0 5 L0 V01 C	001 1100		
<ul> <li>Volume exceeds capac</li> </ul>	city, queue is	theoretic	ally infinit	e.				
Ougue chown is maxim								

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 7: T.F. Green Connector Road Off Ramp



	۶	•	4	<b>†</b>	ļ	4				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			ች	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	351	851	521	413				
Future Volume (vph)	0	0	351	851	521	413				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt			7,00			0.850				
Flt Protected			0.950							
Satd. Flow (prot)	0	0	1787	3539	3471	1538				
Flt Permitted			0.950							
Satd. Flow (perm)	0	0	1787	3539	3471	1538				
Right Turn on Red		Yes				Yes				
Satd. Flow (RTOR)										
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.90	0.90	0.91	0.91				
Heavy Vehicles (%)	2%	2%	1%	2%	4%	5%				
Adj. Flow (vph)	0	0	390	946	573	454				
Shared Lane Traffic (%)										
Lane Group Flow (vph)	0	0	390	946	573	454				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0	<u> </u>		12	12	<u> </u>				
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15			9				
Number of Detectors			1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex	CI+Ex	CI+Ex				
Detector 1 Channel										
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)				94	94					
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel										
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2		1	3		
Permitted Phases						123				
Detector Phase			13	123	2	123				
Switch Phase										

EBR	NBL	NBT	SBT 10.0 16.0	SBR	Ø1 6.0	Ø3	
					6.0	/ 0	
			16.0			6.0	
					11.0	12.0	
			28.0		17.0	15.0	
			46.7%		28%	25%	
			22.0		12.0	9.0	
			4.0		4.0	4.0	
			2.0		1.0	2.0	
			0.0				
			6.0				
			Lag		Lead		
			Yes		Yes		
			3.0		3.0	3.0	
			C-Max		None	None	
			7.0				
			11.0				
			0				
	26.9	60.0	22.1	60.0			
	0.45	1.00	0.37	1.00			
	0.49	0.27	0.45	0.30			
	13.1	0.2	15.8	0.5			
	3.0	0.0	0.0	0.0			
	16.1	0.2	15.8	0.5			
	В	Α	В	Α			
		4.8	9.0				
		А	Α				
	77	0	80	0			
	131	0	119	0			
		151	430				
	804	3485	1277	1514			
	302	0	0	0			
	0	0	0	0			
	0	0	0	0			
	0.78	0.27	0.45	0.30			
2:NBSB, St	art of Gre	een					
%		[(	CU Level o	of Service	D		
		0.45 0.49 13.1 3.0 16.1 B 77 131 804 302 0 0 0.78	0.45 1.00 0.49 0.27 13.1 0.2 3.0 0.0 16.1 0.2 B A 4.8 A 77 0 131 0 151 804 3485 302 0 0 0 0 0 0.78 0.27	6.0 Lag Yes 3.0 C-Max 7.0 11.0 0 26.9 60.0 22.1 0.45 1.00 0.37 0.49 0.27 0.45 13.1 0.2 15.8 3.0 0.0 0.0 16.1 0.2 15.8 B A B 4.8 9.0 A A 77 0 80 131 0 119 151 430  804 3485 1277 302 0	6.0 Lag Yes 3.0 C-Max 7.0 11.0 0 26.9 60.0 22.1 60.0 0.45 1.00 0.37 1.00 0.49 0.27 0.45 0.30 13.1 0.2 15.8 0.5 3.0 0.0 0.0 0.0 16.1 0.2 15.8 0.5 B A B A 4.8 9.0 A A 77 0 80 0 131 0 119 0 151 430  804 3485 1277 1514 302 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.0 Lag	6.0 Lag Lead Yes Yes 3.0 3.0 3.0 3.0  C-Max None None 7.0  11.0 0 26.9 60.0 22.1 60.0 0.45 1.00 0.37 1.00 0.49 0.27 0.45 0.30 13.1 0.2 15.8 0.5 3.0 0.0 0.0 0.0 16.1 0.2 15.8 0.5 B A B A 4.8 9.0 A A 77 0 80 0 131 0 119 0 151 430  804 3485 1277 1514 302 0 0 0 0 0 0 0 0 0 0 0 0.78 0.27 0.45 0.30  Intersection LOS: A

Splits and Phases: 10: T.F. Green Connector Road On Ramp

Page 4

	۶	•	4	<b>†</b>	ļ	✓	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Lane Configurations	ሻሻ	LDIK	NUL	<b>↑</b> ↑	<u>↑</u>	JUIC	D I
Traffic Volume (vph)	275	183	0	931	542	0	
Future Volume (vph)	275	183	0	931	542	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	1.00	
Frt	0.77	0.850	1.00	0.75	0.75	1.00	
Flt Protected	0.950	0.030					
Satd. Flow (prot)	3467	1583	0	3505	3471	0	
Flt Permitted	0.950	1303	U	3303	3471	U	
Satd. Flow (perm)	3467	1583	0	3505	3471	0	
Right Turn on Red	3707	No		0000	J7/ I	Yes	
Satd. Flow (RTOR)		110				103	
Link Speed (mph)	30			30	30		
Link Distance (ft)	257			106	231		
Travel Time (s)	5.8			2.4	5.3		
Peak Hour Factor	0.86	0.86	0.90	0.90	0.90	0.90	
Heavy Vehicles (%)	1%	2%	0.90	3%	4%	0.90	
Adj. Flow (vph)	320	213	070	1034	602	0 /0	
Shared Lane Traffic (%)	320	210		1034	002	0	
Lane Group Flow (vph)	320	213	0	1034	602	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	24	Right	LUIT	0	0	Night	
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane	10			10	10		
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	1.00	9	1.00	1.00	1.00	9	
Number of Detectors	13	1	10	2	2		
Detector Template	Left	Right		Thru	Thru		
Leading Detector (ft)	20	20		100	100		
Trailing Detector (ft)	0	0		0	0		
Detector 1 Position(ft)	0	0		0	0		
Detector 1 Size(ft)	20	20		6	6		
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		
Detector 1 Channel	OITEA	OLLEY		OLLEY	OITEX		
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		
Detector 2 Position(ft)	0.0	0.0		94	94		
Detector 2 Size(ft)				6	6		
Detector 2 Type				CI+Ex	CI+Ex		
Detector 2 Type  Detector 2 Channel				CITEX	CITLX		
				0.0	0.0		
Detector 2 Extend (s)	Drot	custom		NA	NA		
Turn Type Protected Phases	3	13		1 2	NA 2		1
Protected Phases Permitted Phases	3	13		1 2	Z		
Detector Phase	3	13		12	2		
Switch Phase	3	13		1 2	Z		
SMICH LIIG26							

	•	•	•	<b>†</b>	<b></b>	1	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Minimum Initial (s)	6.0				10.0		6.0
Minimum Split (s)	12.0				16.0		11.0
Total Split (s)	15.0				28.0		17.0
Total Split (%)	25.0%				46.7%		28%
Maximum Green (s)	9.0				22.0		12.0
Yellow Time (s)	4.0				4.0		4.0
All-Red Time (s)	2.0				2.0		1.0
Lost Time Adjust (s)	0.0				0.0		
Total Lost Time (s)	6.0				6.0		
Lead/Lag					Lag		Lead
Lead-Lag Optimize?					Yes		Yes
Vehicle Extension (s)	3.0				3.0		3.0
Recall Mode	None				C-Max		None
Walk Time (s)	7.0				7.0		7.0
Flash Dont Walk (s)	11.0				11.0		11.0
Pedestrian Calls (#/hr)	0				0		0
Act Effct Green (s)	8.8	26.8		40.2	22.2		
Actuated g/C Ratio	0.15	0.45		0.67	0.37		
v/c Ratio	0.63	0.30		0.44	0.47		
Control Delay	30.3	12.0		5.4	4.8		
Queue Delay	0.3	0.0		0.0	0.0		
Total Delay	30.6	12.0		5.4	4.8		
LOS	С	В		Α	Α		
Approach Delay	23.2			5.4	4.8		
Approach LOS	С			Α	Α		
Queue Length 50th (ft)	56	46		75	14		
Queue Length 95th (ft)	88	82		105	20		
Internal Link Dist (ft)	177			26	151		
Turn Bay Length (ft)							
Base Capacity (vph)	520	686		2350	1286		
Starvation Cap Reductn	0	0		0	51		
Spillback Cap Reductn	26	0		0	0		
Storage Cap Reductn	0	0		0	0		
Reduced v/c Ratio	0.65	0.31		0.44	0.49		
Intersection Summary							
Area Type:	Other						
Cycle Length: 60							
Actuated Cycle Length: 60							
Offset: 0 (0%), Referenced	to phase 2:1	NBSB, St	art of Gre	een			
Natural Cycle: 40							
Control Type: Actuated-Co	ordinated						
Maximum v/c Ratio: 0.63							
Intersection Signal Delay: 9					ntersection		
Intersection Capacity Utiliza	ation 75.1%			IC	CU Level o	f Service	D
Analysis Period (min) 15							

Splits and Phases: 7: T.F. Green Connector Road Off Ramp

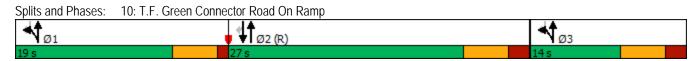


Page 2

	۶	•	4	<b>†</b>	ļ	1				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			ች	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	281	1162	760	372				
Future Volume (vph)	0	0	281	1162	760	372				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt						0.850				
Flt Protected			0.950							
Satd. Flow (prot)	0	0	1787	3610	3574	1583				
Flt Permitted			0.950							
Satd. Flow (perm)	0	0	1787	3610	3574	1583				
Right Turn on Red		Yes				Yes				
Satd. Flow (RTOR)										
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.97	0.97	0.94	0.94				
Heavy Vehicles (%)	2%	2%	1%	0%	1%	2%				
Adj. Flow (vph)	0	0	290	1198	809	396				
Shared Lane Traffic (%)										
Lane Group Flow (vph)	0	0	290	1198	809	396				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0	<u> </u>		12	12	<u> </u>				
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15			9				
Number of Detectors			1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex	CI+Ex	CI+Ex				
Detector 1 Channel										
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)				94	94					
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel										
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2		1	3		
Permitted Phases						123				
Detector Phase			13	123	2	123				
Switch Phase										

	۶	•	•	†	<b>+</b>	4			
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3	
Minimum Initial (s)					10.0		6.0	6.0	
Minimum Split (s)					16.0		11.0	12.0	
Total Split (s)					27.0		19.0	14.0	
Total Split (%)					45.0%		32%	23%	
Maximum Green (s)					21.0		14.0	8.0	
Yellow Time (s)					4.0		4.0	4.0	
All-Red Time (s)					2.0		1.0	2.0	
Lost Time Adjust (s)					0.0				
Total Lost Time (s)					6.0				
Lead/Lag					Lag		Lead		
Lead-Lag Optimize?					Yes		Yes		
Vehicle Extension (s)					3.0		3.0	3.0	
Recall Mode					C-Max		None	None	
Walk Time (s)					7.0				
Flash Dont Walk (s)					11.0				
Pedestrian Calls (#/hr)					0				
Act Effct Green (s)			28.0	60.0	21.0	60.0			
Actuated g/C Ratio			0.47	1.00	0.35	1.00			
v/c Ratio			0.35	0.33	0.65	0.25			
Control Delay			7.8	0.2	19.3	0.4			
Queue Delay			1.6	0.0	0.0	0.0			
Total Delay			9.5	0.2	19.3	0.4			
LOS			Α.	A	В	A			
Approach Delay			,,	2.0	13.1	, ,			
Approach LOS				A	В				
Queue Length 50th (ft)			39	0	126	0			
Queue Length 95th (ft)			m64	m0	180	0			
Internal Link Dist (ft)	194		ПОТ	151	430	U			
Turn Bay Length (ft)	171			101	100				
Base Capacity (vph)			833	3610	1250	1583			
Starvation Cap Reductn			372	0	0	0			
Spillback Cap Reductn			0	0	0	0			
Storage Cap Reductn			0	0	0	0			
Reduced v/c Ratio			0.63	0.33	0.65	0.25			
Intersection Summary									
Area Type:	Other								
Cycle Length: 60									
Actuated Cycle Length: 60									
Offset: 0 (0%), Referenced	to phase 2:N	NBSB, St	art of Gre	een					
Natural Cycle: 40									
Control Type: Actuated-Cod	ordinated								
Maximum v/c Ratio: 0.65									
Intersection Signal Delay: 7	7.0			ıl	ntersection	LOS: A			
Intersection Capacity Utiliza					CU Level o		: D		
Analysis Period (min) 15									
m Valuma for OEth parcor					!				

m Volume for 95th percentile queue is metered by upstream signal.



	•	•	4	<b>†</b>	<b>↓</b>	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Lane Configurations	ሻሻ	T T	NDL	<b>↑</b> ↑	<u>↑</u>	JUK	νı
Traffic Volume (vph)	472	292	0	956	777 770	0	
Future Volume (vph)	472	292	0	956	770	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	1.00	
Frt	0.97	0.850	1.00	0.93	0.93	1.00	
Flt Protected	0.950	0.650					
Satd. Flow (prot)	3502	1454	0	3574	3574	0	
Flt Permitted	0.950	1454	U	3374	3374	U	
Satd. Flow (perm)	3502	1454	0	3574	3574	0	
Right Turn on Red	3302	No	U	3374	3374	Yes	
Satd. Flow (RTOR)		NO				163	
Link Speed (mph)	30			30	30		
Link Speed (mpn) Link Distance (ft)	257			106	231		
Travel Time (s)	5.8			2.4	5.3		
Peak Hour Factor	0.95	0.95	0.90	0.96	0.94	0.90	
	0.95	0.95	0.90	1%	1%	0.90	
Heavy Vehicles (%)	0%		0%	170	170	0%	
Parking (#/hr)	407	207	0	004	010	0	
Adj. Flow (vph)	497	307	0	996	819	0	
Shared Lane Traffic (%)	407	207	0	007	010	0	
Lane Group Flow (vph)	497	307	0	996	819	0	
Enter Blocked Intersection	No	No Diaht	No	No	No	No Diaht	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	24			0	0		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane	1.00	111	1.00	1.00	1.00	1.00	
Headway Factor	1.00	1.14	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15	•	^	9	
Number of Detectors	1	1		2	2		
Detector Template	Left	Right		Thru	Thru		
Leading Detector (ft)	20	20		100	100		
Trailing Detector (ft)	0	0		0	0		
Detector 1 Position(ft)	0	0		0	0		
Detector 1 Size(ft)	20	20		6	6		
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		
Detector 1 Channel							
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		
Detector 2 Position(ft)				94	94		
Detector 2 Size(ft)				6	6		
Detector 2 Type				CI+Ex	CI+Ex		
Detector 2 Channel							
Detector 2 Extend (s)				0.0	0.0		
Turn Type	Prot	custom		NA	NA		
Protected Phases	3	13		12	2		1
Permitted Phases							
Detector Phase	3	13		12	2		

	•	•	<b>↑</b> †	<b>↓</b>	4		
Lane Group	EBL	EBR	NBL NBT	SBT	SBR	Ø1	
Switch Phase							
Minimum Initial (s)	6.0			10.0		6.0	
Minimum Split (s)	12.0			16.0		11.0	
Total Split (s)	14.0			27.0		19.0	
Total Split (%)	23.3%			45.0%		32%	
Maximum Green (s)	8.0			21.0		14.0	
Yellow Time (s)	4.0			4.0		4.0	
All-Red Time (s)	2.0			2.0		1.0	
Lost Time Adjust (s)	0.0			0.0			
Total Lost Time (s)	6.0			6.0			
Lead/Lag				Lag		Lead	
Lead-Lag Optimize?				Yes		Yes	
Vehicle Extension (s)	3.0			3.0		3.0	
Recall Mode	None			C-Max		None	
Walk Time (s)	7.0			7.0		7.0	
Flash Dont Walk (s)	11.0			11.0		11.0	
Pedestrian Calls (#/hr)	0			0		0	
Act Effct Green (s)	8.0	27.8	41.0	21.2			
Actuated g/C Ratio	0.13	0.46	0.68	0.35			
v/c Ratio	1.07	0.46	0.41	0.65			
Control Delay	89.9	13.7	4.8	6.0			
Queue Delay	0.0	0.0	0.0	0.0			
Total Delay	89.9	13.7	4.8	6.0			
LOS	F	В	A	А			
Approach Delay	60.8	_	4.8	6.0			
Approach LOS	E		A	А			
Queue Length 50th (ft)	~105	70	65	16			
Queue Length 95th (ft)	#188	128	92	34			
Internal Link Dist (ft)	177		26	151			
Turn Bay Length (ft)							
Base Capacity (vph)	466	678	2395	1263			
Starvation Cap Reductn	0	0	0	0			
Spillback Cap Reductn	0	0	0	0			
Storage Cap Reductn	0	0	0	0			
Reduced v/c Ratio	1.07	0.45	0.42	0.65			
Intersection Summary							
Area Type:	Other						
Cycle Length: 60							
Actuated Cycle Length: 60							
Offset: 0 (0%), Referenced		NBSB, St	art of Green				
Natural Cycle: 50	<b>'</b>						
Control Type: Actuated-Co	ordinated						
Maximum v/c Ratio: 1.07							
Intersection Signal Delay: 2	22.3		I	ntersection	LOS: C		
Intersection Capacity Utiliz				CU Level c		D	
Analysis Period (min) 15							
<ul> <li>Volume exceeds capac</li> </ul>	city, queue is	theoretic	ally infinite.				
Ougus shown is maxim			J				

Queue shown is maximum after two cycles.

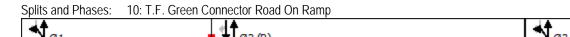
# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 7: T.F. Green Connector Road Off Ramp



	۶	•	4	†	ļ	4				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			*	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	357	864	533	413				
Future Volume (vph)	0	0	357	864	533	413				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt	1.00	1.00	1.00	0.70	0.70	0.850				
Flt Protected			0.950			0.000				
Satd. Flow (prot)	0	0	1787	3539	3471	1538				
Flt Permitted	· ·		0.950	0007	0171	1000				
Satd. Flow (perm)	0	0	1787	3539	3471	1538				
Right Turn on Red		Yes	,,,,,	0007	0171	Yes				
Satd. Flow (RTOR)		100				100				
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.90	0.90	0.91	0.91				
Heavy Vehicles (%)	2%	2%	1%	2%	4%	5%				
Adj. Flow (vph)	0	0	397	960	586	454				
Shared Lane Traffic (%)	U	0	371	700	300	707				
Lane Group Flow (vph)	0	0	397	960	586	454				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0	rtigitt	LOIT	12	12	rtigrit				
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane	10			10	10					
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15	1.00	1.00	9				
Number of Detectors	10	,	1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex		CI+Ex				
Detector 1 Channel			02.	02	51: EX	027				
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)			0.0	94	94	0.0				
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel				OFFER	OTTEX					
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2	JUJUII	1	3		
Permitted Phases			1 3	123		123		J		
Detector Phase			13	123	2	123				
Switch Phase			1 3	120		120				

Lane Group EBL  Minimum Initial (s)  Minimum Split (s)  Total Split (s)  Total Split (%)  Maximum Green (s)  Yellow Time (s)  All-Red Time (s)  Lost Time Adjust (s)	EBR	NBL	NBT	SBT 10.0 16.0 28.0 46.7%	SBR	Ø1 6.0 11.0	Ø3 6.0 12.0	
Minimum Split (s) Total Split (s) Total Split (%) Maximum Green (s) Yellow Time (s) All-Red Time (s)				16.0 28.0				
Total Split (s) Total Split (%) Maximum Green (s) Yellow Time (s) All-Red Time (s)				28.0		11.0	12.0	
Total Split (s) Total Split (%) Maximum Green (s) Yellow Time (s) All-Red Time (s)							12.0	
Total Split (%) Maximum Green (s) Yellow Time (s) All-Red Time (s)						17.0	15.0	
Maximum Green (s) Yellow Time (s) All-Red Time (s)				TU. / /U		28%	25%	
Yellow Time (s) All-Red Time (s)				22.0		12.0	9.0	
				4.0		4.0	4.0	
				2.0		1.0	2.0	
				0.0				
Total Lost Time (s)				6.0				
Lead/Lag				Lag		Lead		
Lead-Lag Optimize?				Yes		Yes		
Vehicle Extension (s)				3.0		3.0	3.0	
Recall Mode				C-Max		None	None	
Walk Time (s)				7.0				
Flash Dont Walk (s)				11.0				
Pedestrian Calls (#/hr)				0				
Act Effct Green (s)		27.0	60.0	22.0	60.0			
Actuated g/C Ratio		0.45	1.00	0.37	1.00			
v/c Ratio		0.49	0.27	0.46	0.30			
Control Delay		13.4	0.2	15.9	0.5			
Queue Delay		3.2	0.0	0.0	0.0			
Total Delay		16.6	0.2	15.9	0.5			
LOS		В	Α	В	Α			
Approach Delay			5.0	9.2				
Approach LOS			Α	А				
Queue Length 50th (ft)		80	0	82	0			
Queue Length 95th (ft)		134	0	122	0			
Internal Link Dist (ft) 194			151	430				
Turn Bay Length (ft)								
Base Capacity (vph)		804	3539	1272	1538			
Starvation Cap Reductn		300	0	0	0			
Spillback Cap Reductn		0	0	0	0			
Storage Cap Reductn		0	0	0	0			
Reduced v/c Ratio		0.79	0.27	0.46	0.30			
Intersection Summary								
Area Type: Other								
Cycle Length: 60								
Actuated Cycle Length: 60								
Offset: 0 (0%), Referenced to phase 2:NI	BSB, Sta	rt of Gre	en					
Natural Cycle: 40								
Control Type: Actuated-Coordinated								
Maximum v/c Ratio: 0.49								
Intersection Signal Delay: 6.8				ntersection				
Intersection Capacity Utilization 76.0%			I	CU Level c	of Service	D		
Analysis Period (min) 15								

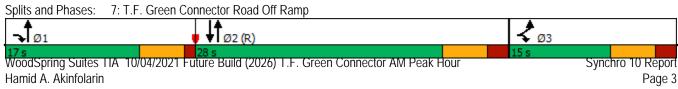


WoodSpring Suites TIA 10/04/2021 Future Build (2026) T.F. Green Connector AM Peak Hour Hamid A. Akinfolarin

Synchro 10 Report Page 5

	۶	•	4	<b>†</b>	<b>↓</b>	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Lane Configurations	ሻሻ	7	IVDL	<b>†</b>	<b>^</b>	ODIT	21
Traffic Volume (vph)	275	188	0	950	542	0	
Future Volume (vph)	275	188	0	950	542	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	1.00	
Frt	0.77	0.850	1.00	0.75	0.73	1.00	
Flt Protected	0.950	0.030					
Satd. Flow (prot)	3467	1583	0	3505	3471	0	
Flt Permitted	0.950	1303	U	3303	J 7 7 1	U	
Satd. Flow (perm)	3467	1583	0	3505	3471	0	
Right Turn on Red	3407	No	U	3303	J47 I	Yes	
Satd. Flow (RTOR)		INO				163	
Link Speed (mph)	30			30	30		
Link Distance (ft)	257			106	231		
Travel Time (s)	5.8			2.4	5.3		
Peak Hour Factor	0.86	0.86	0.90	0.90	0.90	0.90	
	1%	2%	0.90	3%	4%	0.90	
Heavy Vehicles (%)	320	219		1056	602		
Adj. Flow (vph) Shared Lane Traffic (%)	320	219	0	1000	002	0	
. ,	220	210	0	105/	/02	0	
Lane Group Flow (vph)	320	219 No.	0	1056	602	0	
Enter Blocked Intersection	No	No	No	No	No	No Diabt	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	24			0	0		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane	1.00	1.00	1.00	1.00	1.00	1.00	
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15	2	2	9	
Number of Detectors	1	1 Diamet		2	2		
Detector Template	Left	Right		Thru	Thru		
Leading Detector (ft)	20	20		100	100		
Trailing Detector (ft)	0	0		0	0		
Detector 1 Position(ft)	0	0		0	0		
Detector 1 Size(ft)	20	20		6	6		
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		
Detector 1 Channel	0.0	0.0		0.0	0.0		
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		
Detector 2 Position(ft)				94	94		
Detector 2 Size(ft)				6	6		
Detector 2 Type				CI+Ex	CI+Ex		
Detector 2 Channel							
Detector 2 Extend (s)				0.0	0.0		
Turn Type		custom		NA	NA		
Protected Phases	3	13		12	2		1
Permitted Phases					_		
Detector Phase	3	13		12	2		
Switch Phase							

7: 1:1: 616611 6611	1100101 11	oud O	ii i tetii	<u> </u>				
	•	•	•	<b>†</b>	<b>↓</b>	1		
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	
Minimum Initial (s)	6.0				10.0		6.0	
Minimum Split (s)	12.0				16.0		11.0	
Total Split (s)	15.0				28.0		17.0	
Total Split (%)	25.0%				46.7%		28%	
Maximum Green (s)	9.0				22.0		12.0	
Yellow Time (s)	4.0				4.0		4.0	
All-Red Time (s)	2.0				2.0		1.0	
Lost Time Adjust (s)	0.0				0.0			
Total Lost Time (s)	6.0				6.0			
Lead/Lag					Lag		Lead	
Lead-Lag Optimize?					Yes		Yes	
Vehicle Extension (s)	3.0				3.0		3.0	
Recall Mode	None				C-Max		None	
Walk Time (s)	7.0				7.0		7.0	
Flash Dont Walk (s)	11.0				11.0		11.0	
Pedestrian Calls (#/hr)	0				0		0	
Act Effct Green (s)	8.8	26.8		40.2	22.2			
Actuated g/C Ratio	0.15	0.45		0.67	0.37			
v/c Ratio	0.63	0.31		0.45	0.47			
Control Delay	30.3	12.1		5.4	4.6			
Queue Delay	0.4	0.0		0.0	0.0			
Total Delay	30.7	12.1		5.4	4.6			
LOS	С	В		Α	Α			
Approach Delay	23.1			5.4	4.6			
Approach LOS	С			Α	Α			
Queue Length 50th (ft)	56	48		77	13			
Queue Length 95th (ft)	88	85		108	18			
Internal Link Dist (ft)	177			26	151			
Turn Bay Length (ft)								
Base Capacity (vph)	520	686		2350	1286			
Starvation Cap Reductn	0	0		0	41			
Spillback Cap Reductn	30	0		0	0			
Storage Cap Reductn	0	0		0	0			
Reduced v/c Ratio	0.65	0.32		0.45	0.48			
Intersection Summary								
Area Type:	Other							
Cycle Length: 60								
Actuated Cycle Length: 60								
Offset: 0 (0%), Referenced	to phase 2:	NBSB, St	art of Gre	een				
Natural Cycle: 40								
Control Type: Actuated-Co	ordinated							
Maximum v/c Ratio: 0.63						100		
Intersection Signal Delay: 9					ntersection		<b>D</b>	
Intersection Capacity Utiliza	ation /6.0%			[(	CU Level c	of Service	ט	
Analysis Period (min) 15								



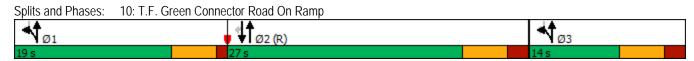
Page 3

Intersection						
Int Delay, s/veh	0.7					
Movement E	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			<b>^</b>	<b>^</b>	
Traffic Vol, veh/h	19	14	20	931	805	17
Future Vol, veh/h	19	14	20	931	805	17
Conflicting Peds, #/hr	0	0	0	0	0	0
	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -	None	-	None	-	None
Storage Length	0	-	_	-	_	-
Veh in Median Storage, #		-	-	0	0	_
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	90	90	90	90
Heavy Vehicles, %	0	0	0	3	4	0
Mvmt Flow	21	15	22	1034	894	19
Major/Minor Min	nor2	١	/lajor1	N	/lajor2	
	465	457	913	0	-	0
	904	437	713	-	_	-
3	561	-	-	-	-	_
	6.8	6.9	4.1	-	-	-
3				-	-	-
3 0	5.8	-	-	-	-	-
3 0	5.8	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
	121	556	755	-	-	-
	360	-	-	-	-	-
Stage 2	540	-	-	-	-	-
Platoon blocked, %				-	-	-
	113	556	755	-	-	-
	113	-	-	-	-	-
	335	-	-		-	-
3	540	_	_	_	_	_
Jiago Z	J-10					
Approach	EB		NB		SB	
HCM Control Delay, s 3	31.6		0.2		0	
HCM LOS	D					
		NIDI	NDT	EBLn1	SBT	SBR
Minor Lang/Major Mumt		וטוא			SDI	SDK
Minor Lane/Major Mvmt		NBL				
Capacity (veh/h)		755	-	171	-	-
Capacity (veh/h) HCM Lane V/C Ratio		755 0.029	-	171 0.21		-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		755 0.029 9.9	-	171 0.21 31.6	-	-
Capacity (veh/h) HCM Lane V/C Ratio		755 0.029	-	171 0.21	- -	- - -

	۶	•	4	<b>†</b>	ļ	1				
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3		
Lane Configurations			ች	<b>^</b>	<b>^</b>	7				
Traffic Volume (vph)	0	0	285	1173	778	372				
Future Volume (vph)	0	0	285	1173	778	372				
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900				
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00				
Frt			7,00			0.850				
Flt Protected			0.950							
Satd. Flow (prot)	0	0	1787	3610	3574	1583				
Flt Permitted			0.950							
Satd. Flow (perm)	0	0	1787	3610	3574	1583				
Right Turn on Red		Yes				Yes				
Satd. Flow (RTOR)										
Link Speed (mph)	30			30	30					
Link Distance (ft)	274			231	510					
Travel Time (s)	6.2			5.3	11.6					
Peak Hour Factor	0.92	0.92	0.97	0.97	0.94	0.94				
Heavy Vehicles (%)	2%	2%	1%	0%	1%	2%				
Adj. Flow (vph)	0	0	294	1209	828	396				
Shared Lane Traffic (%)										
Lane Group Flow (vph)	0	0	294	1209	828	396				
Enter Blocked Intersection	No	No	No	No	No	No				
Lane Alignment	Left	Right	Left	Left	Left	Right				
Median Width(ft)	0	<u> </u>		12	12	<u> </u>				
Link Offset(ft)	0			0	0					
Crosswalk Width(ft)	16			16	16					
Two way Left Turn Lane										
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00				
Turning Speed (mph)	15	9	15			9				
Number of Detectors			1	2	2	1				
Detector Template			Left	Thru	Thru	Right				
Leading Detector (ft)			20	100	100	20				
Trailing Detector (ft)			0	0	0	0				
Detector 1 Position(ft)			0	0	0	0				
Detector 1 Size(ft)			20	6	6	20				
Detector 1 Type			CI+Ex	CI+Ex	CI+Ex	CI+Ex				
Detector 1 Channel										
Detector 1 Extend (s)			0.0	0.0	0.0	0.0				
Detector 1 Queue (s)			0.0	0.0	0.0	0.0				
Detector 1 Delay (s)			0.0	0.0	0.0	0.0				
Detector 2 Position(ft)				94	94					
Detector 2 Size(ft)				6	6					
Detector 2 Type				CI+Ex	CI+Ex					
Detector 2 Channel										
Detector 2 Extend (s)				0.0	0.0					
Turn Type			Prot	NA		custom				
Protected Phases			13	123	2		1	3		
Permitted Phases						123				
Detector Phase			13	123	2	123				
Switch Phase										

	۶	•	•	†	<b>+</b>	4			
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	Ø3	
Minimum Initial (s)					10.0		6.0	6.0	
Minimum Split (s)					16.0		11.0	12.0	
Total Split (s)					27.0		19.0	14.0	
Total Split (%)					45.0%		32%	23%	
Maximum Green (s)					21.0		14.0	8.0	
Yellow Time (s)					4.0		4.0	4.0	
All-Red Time (s)					2.0		1.0	2.0	
Lost Time Adjust (s)					0.0				
Total Lost Time (s)					6.0				
Lead/Lag					Lag		Lead		
Lead-Lag Optimize?					Yes		Yes		
Vehicle Extension (s)					3.0		3.0	3.0	
Recall Mode					C-Max		None	None	
Walk Time (s)					7.0				
Flash Dont Walk (s)					11.0				
Pedestrian Calls (#/hr)					0				
Act Effct Green (s)			28.0	60.0	21.0	60.0			
Actuated g/C Ratio			0.47	1.00	0.35	1.00			
v/c Ratio			0.35	0.33	0.66	0.25			
Control Delay			8.0	0.2	19.6	0.4			
Queue Delay			1.7	0.0	0.0	0.0			
Total Delay			9.6	0.2	19.6	0.4			
LOS			A	A	В	А			
Approach Delay			• •	2.1	13.4	• •			
Approach LOS				A	В				
Queue Length 50th (ft)			40	0	130	0			
Queue Length 95th (ft)			m66	m0	185	0			
Internal Link Dist (ft)	194			151	430	· ·			
Turn Bay Length (ft)									
Base Capacity (vph)			833	3610	1250	1583			
Starvation Cap Reductn			370	0	0	0			
Spillback Cap Reductn			0	0	0	0			
Storage Cap Reductn			0	0	0	0			
Reduced v/c Ratio			0.63	0.33	0.66	0.25			
Intersection Summary									
Area Type:	Other								
Cycle Length: 60									
Actuated Cycle Length: 60									
Offset: 0 (0%), Referenced	to phase 2:I	NBSB, St	art of Gre	een					
Natural Cycle: 40									
Control Type: Actuated-Coo	ordinated								
Maximum v/c Ratio: 0.66									
Intersection Signal Delay: 7	'.1			ıl	ntersection	LOS: A			
Intersection Capacity Utiliza					CU Level o		: D		
Analysis Period (min) 15									
m Volume for OEth percer	atilo guovo i	motorca	l by unct	oom cla	nol				

m Volume for 95th percentile queue is metered by upstream signal.



	٠	•	4	<b>†</b>	<b>↓</b>	4	
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1
Lane Configurations	ሻሻ	7		<b>^</b>	<b>^</b>	02.1	
Traffic Volume (vph)	472	296	0	971	770	0	
Future Volume (vph)	472	296	0	971	770	0	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Lane Util. Factor	0.97	1.00	1.00	0.95	0.95	1.00	
Frt	0.97	0.850	1.00	0.93	0.90	1.00	
Flt Protected	0.950	0.000					
		1/5/	Λ	2574	2574	Λ	
Satd. Flow (prot) Flt Permitted	3502	1454	0	3574	3574	0	
	0.950	1454	0	2574	2574	0	
Satd. Flow (perm)	3502	1454	0	3574	3574	0	
Right Turn on Red		No				Yes	
Satd. Flow (RTOR)	00			22	00		
Link Speed (mph)	30			30	30		
Link Distance (ft)	257			106	231		
Travel Time (s)	5.8			2.4	5.3		
Peak Hour Factor	0.95	0.95	0.90	0.96	0.94	0.90	
Heavy Vehicles (%)	0%	0%	0%	1%	1%	0%	
Parking (#/hr)		0					
Adj. Flow (vph)	497	312	0	1011	819	0	
Shared Lane Traffic (%)							
Lane Group Flow (vph)	497	312	0	1011	819	0	
Enter Blocked Intersection	No	No	No	No	No	No	
Lane Alignment	Left	Right	Left	Left	Left	Right	
Median Width(ft)	24			0	0		
Link Offset(ft)	0			0	0		
Crosswalk Width(ft)	16			16	16		
Two way Left Turn Lane							
Headway Factor	1.00	1.14	1.00	1.00	1.00	1.00	
Turning Speed (mph)	15	9	15			9	
Number of Detectors	1	1		2	2		
Detector Template	Left	Right		Thru	Thru		
Leading Detector (ft)	20	20		100	100		
Trailing Detector (ft)	0	0		0	0		
Detector 1 Position(ft)	0	0		0	0		
Detector 1 Size(ft)	20	20		6	6		
Detector 1 Type	CI+Ex	CI+Ex		CI+Ex	CI+Ex		
Detector 1 Channel	OI! EX	OI I EX		OI. LX	OI. LA		
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		
Detector 2 Position(ft)	0.0	0.0		94	94		
Detector 2 Size(ft)				6	6		
Detector 2 Type				CI+Ex	CI+Ex		
				CI+EX	OI+EX		
Detector 2 Channel				0.0	0.0		
Detector 2 Extend (s)	Dest	ou otors		0.0	0.0		
Turn Type		custom		NA 1.2	NA		1
Protected Phases	3	1 3		12	2		1
Permitted Phases		4.0		4.0			
Detector Phase	3	13		12	2		

ʹ	`	•	<b>†</b>	1	1
-	•	``	- 1	*	•

		•	•	•	•			
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR	Ø1	
Switch Phase								
Minimum Initial (s)	6.0				10.0		6.0	
Minimum Split (s)	12.0				16.0		11.0	
Total Split (s)	14.0				27.0		19.0	
Total Split (%)	23.3%				45.0%		32%	
Maximum Green (s)	8.0				21.0		14.0	
Yellow Time (s)	4.0				4.0		4.0	
All-Red Time (s)	2.0				2.0		1.0	
Lost Time Adjust (s)	0.0				0.0			
Total Lost Time (s)	6.0				6.0			
Lead/Lag					Lag		Lead	
Lead-Lag Optimize?					Yes		Yes	
Vehicle Extension (s)	3.0				3.0		3.0	
Recall Mode	None				C-Max		None	
Walk Time (s)	7.0				7.0		7.0	
Flash Dont Walk (s)	11.0				11.0		11.0	
Pedestrian Calls (#/hr)	0				0		0	
Act Effct Green (s)	8.0	27.8		41.0	21.2			
Actuated g/C Ratio	0.13	0.46		0.68	0.35			
v/c Ratio	1.07	0.46		0.41	0.65			
Control Delay	89.9	13.8		4.8	6.0			
Queue Delay	0.0	0.0		0.0	0.0			
Total Delay	89.9	13.8		4.8	6.0			
LOS	F	В		Α	Α			
Approach Delay	60.5			4.8	6.0			
Approach LOS	Е			Α	Α			
Queue Length 50th (ft)	~105	72		66	15			
Queue Length 95th (ft)	#188	131		94	36			
Internal Link Dist (ft)	177			26	151			
Turn Bay Length (ft)								
Base Capacity (vph)	466	678		2394	1262			
Starvation Cap Reductn	0	0		0	6			
Spillback Cap Reductn	0	0		0	0			
Storage Cap Reductn	0	0		0	0			
Reduced v/c Ratio	1.07	0.46		0.42	0.65			

### Intersection Summary

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 60

Offset: 0 (0%), Referenced to phase 2:NBSB, Start of Green

Natural Cycle: 55

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 1.07

Intersection Signal Delay: 22.2 Intersection LOS: C
Intersection Capacity Utilization 80.7% ICU Level of Service D

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 7: T.F. Green Connector Road Off Ramp



Later and a						
Intersection	2.5					
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			414	ħβ	
Traffic Vol, veh/h	15	16	21	956	1085	22
Future Vol, veh/h	15	16	21	956	1085	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	96	96	94	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	17	22	996	1154	24
WWW.C TOW	10			770	1101	21
	Minor2		Major1		Major2	
Conflicting Flow All	1708	589	1178	0	-	0
Stage 1	1166	-	-	-	-	-
Stage 2	542	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	82	452	589	-	-	-
Stage 1	259	-	-	-	-	-
Stage 2	547	-	-	-	-	-
Platoon blocked, %				-	-	_
Mov Cap-1 Maneuver	75	452	589	-	-	-
Mov Cap 1 Maneuver	75	-102		_	_	_
Stage 1	237	_	_	_	_	_
Stage 2	547	_	_	_		
Jidye Z	J <del>4</del> /	-		-	_	-
Approach	EB		NB		SB	
HCM Control Delay, s	41.4		0.7		0	
HCM LOS	Ε					
Minor Lane/Major Mvm	nt	NBL	NRT	EBLn1	SBT	SBR
	π					אטכ
Capacity (veh/h)		589	-		-	-
HCM Cantral Dalay (a)		0.037		0.255	-	-
HCM Long LOS		11.3	0.5		-	-
HCM Lane LOS	\	В	А	E	-	-
HCM 95th %tile Q(veh	)	0.1	-	1	-	-

Appendix F Speed Study Results	
Speed Study Results	Appendix F
	Speed Study Results

# **Pare Corporation**



8 Blackstone Valley Place Lincoln, RI, 02865 401-334-4100

www.parecorp.com

Roadway: Post Road Location: 2245 Post Road Weather: Sunny, 72°F

Taken By: HA

File Name: 2245 Post Road Speed Study

Site Code : 21175.00 Start Date : 9/21/2021

Page No : 1

#	Northbound	Southbound
1	39	37
2	45	35
3	37	39
4	35	38
5	38	45
6	52	44
7	37	36
8	39	38
9	36	34
10	42	35
11	37	45
12	46	44
13	36	44
14	41	36
15	44	38
16	44	39
17	37	37
18	39	42
19	38	38
20	40	41
21	42	39
22	39	39
23	45	38
24	38	38
25	51	38
26	46	40
27	48	41
28	44	42
29	47	44
30	46	43
31	42	41
32	38	38
33	39	36
34	39	37
35	45	35
36	44	38
37	44	37
38	42	39
39	38	39
40	39	39
41		

Class	Vehicle Count	85 Percentile	10 MPH Pace Speed	Number in Pace	Percent in Pace	Number of Vehicles Over 35 MPH	Percent of Vehicles Over 35 MPH	Average Speed	True Median (50th Percentile)
Northbound	40	46	37 - 46	33	82	39	98	41	40
Southbound	40	43	35 - 44	37	92	36	90	39	38
Summary	80	44	36 - 45	68	85	75	94	40	39